7236

THE LONGITUDE LOGARITHMS;

IN

THEIR REGULAR AND SHORTEST ORDER,

MADE EASY FOR USE IN TAKING THE

LATITUDE AND LONGITUDE,

AT SEA AND LAND.

BY SAMUEL DUNN,

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M.DCC.XCIII.

Numbers and their Common Logarithms, with the Index.

No.	0.	1.	2.	3.	4.
0		0.0000	0.3010	0.4771	0.6020
1	1.0000	1.0413	1.0791	1.1139	1.1461
2	1.3010	1.3222	1.3424	1.3617	1.3802
3	1.4771	1.4913	1.5051	1.5185	1.5314
4	1.6020	1.6127	1.6232	1.6334	1.6434
5	1.6989	1.7075	1.7160	1.7242	1.7323
6	1.7781	1.7853	1.7923	1.7993	1.8061
7	1.8450	1.8512	1.8573	1.8633	1.8692
8	1.9030	1.9084	1.9138	1.9190	1.9242
9	1.9542	1.9590	1.9637	1.9684	1.9731
10	2.0000	2.0043	2.0086	2.0128	2.0170
11	2.0413	2.0453	2.0492	2.0530	2.0569
12	2.0791	2.0827	2.0863	2.0899	2.0934
13	2.1139	2.1172	2.1205	2.1238	2.1271
14	2.1461	2.1492	2.1522	2.1553	2.1583
15	2.1760	2.1789	2.1818	2.1846	2.1875
16	2.2041	2.2068	2.2095	2.2121	2.2148
17	2.2304	2.2329	2.2355	2.2380	2.2405
18	2.2552	2.2576	2.2600	2.2624	2.2648
19	2.2787	2.2810	2.2833	2.2855	2.2870
20	2.3010	2.3031	2.3053	2.3074	2.3096
21	2.3222	2.3242	2.3263	2.3283	2.3304
22	2.3424	2.3443	2.3463	2.3483	2.3502
23	2.3617	2.3636	2.3654	2.3673	2.3692
24	2.3802	2.3820	2.3838	2.3856	2.3873
25	2.3979	2.3996	2.4014	2.4031	2.4048
26	2.4149	2.4166	2.4183	2.4199	2.4216
27	2.4313	2.4329	2.4345	2.4361	2.4377
28	2.4471	2.4487	2.4502	2.4517	2.4533
29	2.4623	2.4638	2.4653	2.4668	2.4683
30	2.4771	2.4785	2.4800	2.4814	2.4828
31	2.4913	2.4927	2.4941	2.4955	2.4969
32	2.5051	2.5065	2.5078	2.5092	2.5105
33	2.5185	2.5198	2.5211	2.5224	2.5237
34	2.5314	2.5327	2.5340	2.5352	2.5365
35	2.5440	2.5453	2.5465	2.5477	2.5490
36	2.5563	2.5575	2.5587	2.5599	2.5611
37	2.5682	2.5693	2.5705	2.5717	1.5728
38	2.5797	2.5809	2.5820	2.5831	2.5843
39	2.5910	2.5921	2.5932	2.5943	2.5954

Numbers and their Common Logarithms, with the Index.

No.	5.	6.	7.	8.	9.
0	0.6989	0.7781	0.8450	0.9030	0.9542
1	1.1760	1.2041	1.2304	1.2552	1.2787
2	1.3979	1.4149	1.4313	1.4471	1.4623
3	1.5440	1.5563	1.5682	1.5797	1.5910
4	1.6532	1.6627	1.6720	1.6812	1.6901
5	1.7403	1.7481	1.7558	1.7634	1.7708
6	1.8129	1.8195	1.8260	1.8325	1.8388
7	1.8750	1.8808	1.8864	1.8920	1.8976
8	1.9294	1.9344	1.9395	1.9444	1.9493
9	1.9777	1.9822	1.9867	1.9912	1.9956
10	2.0211	2.0253	2.0293	2.0334	2.0374
11	2.0606	2.0644	2.0681	2.0718	2.0755
12	2.0969	2.1003	2.1038	2.1072	2.1105
13	2.1303	2.1335	2.1367	2.1398	2.1430
14	2.1613	2.1643	2.1673	2.1702	2.1731
15	2.1903	2.1931	2.1959	2.1986	2.2013
16	2.2174	2.2201	2.2227	2.2253	2.2278
17	2.2430	2.2455	2.2479	2.2504	2.2528
18	2.2671	2.2695	2.2718	2.2741	2.2764
19	2.2900	2.2922	2.2944	2.2966	2.2988
20	2.3117	2.3138	2.3159	2.3180	2.3201
21	2.3324	2.3344	2.3364	2.3384	2.3404
22	2.3521	2.3541	2.3560	2.3579	2.3598
23	2.3710	2.3729	2.3747	2.3765	2.3783
24	2.3891	2.3909	2.3926	2.3944	2.3961
25	2.4065	2.4082	2.4099	2.4116	2.4133
26	2.4232	2.4248	2.4265	2.4281	2.4297
27	2.4393	2.4409	2.4424	2.4440	2.4456
28	2.4548	2.4563	2.4578	2.4593	2.4608
29	2.4698	2.4712	2.4727	2.4742	2.4756
30	2.4843	2.4857	2.4871	2.4885	2.4899
31	2.4983	2.4996	2.5010	2.5024	2.5037
32	2.5118	2.5132	2.5145	2.5158	2.5171
33	2.5250	2.5263	2.5276	2.5289	2.5302
34	2.5378	2.5390	2.5403	2.5415	2.5428
35	2.5502	2.5514	2.5526	2.5538	2.5550
36	2.5622	2.5634	2.5646	2.5658	2.5670
37	2.5740	2.5751	2.5763	2.5774	2.5786
38	2.5854	2.5865	2.5877	2.5888	2.5899
39	2.5965	2.5976	2.5987	2.5998	2.6009

Numbers and their Common Logarithms, with the Index.

No.	0.	1.	2.	3.	4.
40	2.6020	2.6031	2.6042	2.6053	2.6063
41	2.6127	2.6138	2.6148	2.6159	2.6170
42	2.6232	2.6242	2.6253	2.6263	2.6273
43	2.6334	2.6344	2.6354	2.6364	2.6374
44	2.6434	2.6444	2.6454	2.6464	2.6473
45	2.6532	2.6541	2.6551	2.6560	2.6570
46	2.6627	2.6637	2.6646	2.6655	2.6665
47	2.6720	2.6731	2.6739	2.6748	2.6757
48	2.6812	2.6821	2.6830	2.6839	2.6848
49	2.6901	2.6910	2.6919	2.6928	2.6937
50	2.6989	2.6998	2.7007	2.7015	2.7024
51	2.7075	2.7084	2.7092	2.7101	2.7109
52	2.7160	2.7168	2.7176	2.7185	2.7193
53	2.7242	2.7250	2.7259	2.7267	2.7275
54	2.7323	2.7331	2.7339	2.7348	2.7355
55	2.7403	2.7411	2.7419	2.7427	2.7435
56	2.7481	2.7489	2.7497	2.7505	2.7512
57	2.7558	2.7566	2.7573	2.7581	2.7589
58	2.7634	2.7641	2.7649	2.7656	2.7664
59	2.7708	2.7715	2.7723	2.7730	2.7737
60	2.7781	2.7788	2.7795	2.7803	2.7810
61	2.7853	2.7860	2.7867	2.7874	2.7881
62	2.7925	2.7930	2.7937	2.7944	2.7951
63	2.7993	2.8000	2.8007	2.8014	2.8020
64	2.8061	2.8068	2.8075	2.8082	2.8088
65	2.8129	2.8135	2.8142	2.8149	2.8155
66	2.8195	2.8202	2.8208	2.8215	2.8221
67	2.8260	2.8267	2.8273	2.8280	2.8286
68	2.8325	2.8331	2.8337	2.8344	2.8350
69	2.8388	2.8394	2.8401	2.8407	2.8413
70	2.8450	2.8457	2.8463	2.8469	2.8475
71	2.8512	2.8518	2.8524	2.8530	2.8536
72	2.8573	2.8579	2.8585	2.8591	2.8597
73	2.8633	2.8639	2.8645	2.8651	2.8656
74	2.8692	2.8698	2.8704	2.8709	2.8715
75	2.8750	2.8756	2.8762	2.8767	2.8773
76	2.8808	2.8813	2.8819	2.8825	2.8830
77	2.8864	2.8870	2.8876	2.8881	2.8887
78	2.8920	2.8926	2.8932	2.8937	2.8943
79	2.8976	2.8981	2.8987	2.8992	2.8998

No.	5.	6.	7.	8.	9.
40	2.6074	2.6085	2.6095	2.6106	2.6117
41	2.6180	2.6190	2.6201	2.6211	2.6222
42	2.6283	2.6294	2.6304	2.6314	2.6324
43	2.6384	2.6394	2.6404	2.6414	2.6424
44	2.6483	2.6493	2.6503	2.6512	2.6522
45	2.6580	2.6589	2.6599	2.6608	2.6618
46	2.6674	2.6683	2.6693	2.6702	2.6711
47	2.6766	2.6776	2.6785	2.6794	2.6803
48	2.6857	2.6866	2.6875	2.6884	2.6893
49	2.6946	2.6954	2.6963	2.6972	2.6981
50	2.7032	2.7041	2.7050	2.7058	2.7067
51	2.7118	2.7126	2.7134	2.7143	2.7151
52	2.7201	2.7209	2.7218	2.7226	2.7234
53	2.7283	2.7291	2.7299	2.7307	2.7315
54	2.7363	2.7371	2.7379	2.7387	2.7395
55	2.7442	2.7450	2.7458	2.7466	2.7474
56	2.7520	2.7528	2.7535	2.7543	2.7551
57	2.7590	2.7604	2.7611	2.7619	2.7626
58	2.7671	2.7678	2.7686	2.7693	2.7701
59	2.7745	2.7752	2.7759	2.7767	2.7774
60	2.7817	2.7824	2.7831	2.7839	2.7846
61	2.7888	2.7895	2.7902	2.7909	2.7916
62	2.7958	2.7665	2.7972	2.7979	2.7986
63	2.8027	2.8034	2.8041	2.8048	2.8055
64	2.8095	2.8102	2.8109	2.8115	2.8122
65	2.8162	2.8169	2.8175	2.8182	2.8188
66	2.8228	2.8234	2.8241	2.8247	2.8254
67	2.8293	2.8299	2.8305	2.8312	2.8318
68	2.8356	2.8363	2.8369	2.8375	2.8382
69	2.8419	2.8426	2.8432	2.8438	2.8444
70	2.8481	2.8488	2.8494	2.8500	2.8506
71	2.8543	2.8549	2.8555	2.8561	2.8567
72	2.8603	2.8609	2.8615	2.8621	2.8627
73	2.8662	2.8668	2.8674	2.8680	2.8686
74	2.8721	2.8727	2.8733	2.8739	2.8744
75	2.8779	2.8785	2.8790	2.8796	2.8802
76	2.8839	2.8842	2.8847	2.8853	2.8859
77	2.8893	2.8898	2.8904	2.8909	2.8915
78	2.8948	2.8954	2.8959	2.8965	2.8970
79	2.9003	2.9009	2.9014	2.9020	2.9025

Numbers and their Common Logarithms, with the Index.

No.	0.	1.	2.	3.	4.
80	2.9030	2.9036	2.9041	2.9047	2.9052
81	2.9084	2.9090	2.9095	2.9100	2.9106
82	2.9138	2.9143	2.9148	2.9154	2.9159
83	2.9190	2.9196	2.9201	2.9206	2.9211
84	2.9242	2.9247	2.9253	2.9258	2.9263
85	2.9294	2.9299	2.9304	2.9309	2.9314
86	2.9344	2.9350	2.9355	2.9360	2.9365
87	2.9395	2.9400	2.9405	2.9410	2.9415
88	2.9444	2.9449	2.9454	2.9459	2.9464
89	2.9493	2.9498	2.9503	2.9508	2.9513
90	2.9542	2.9547	2.9552	2.9556	2.9561
91	2.9590	2.9595	2.9599	2.9604	2.9609
92	2.9637	2.9642	2.9647	2.9652	2.9656
93	2.9684	2.9689	2.9694	2.9698	2.9703
94	2.9731	2.9735	2.9740	2.9745	2.9749
95	2.9777	2.9781	2.9786	2.9790	2.9795
96	2.9822	2.9827	2.9831	2.9836	2.9840
97	2.9867	2.9872	2.9876	2.9881	2.9885
98	2.9912	2.9916	2.9921	2.9925	2.9929
99	2.9956	2.9960	2.9965	2.9969	2.9973
100	3.0000	3.0004	3.0008	3.0013	3.0017
101	3.0043	3.0047	3.0051	3.0056	3.0060
102	3.0086	3.0090	3.0094	3.0098	3.0103
103	3.0128	3.0132	3.0136	3.0141	3.0145
104	3.0170	3.0174	3.0178	3.0182	3.0187
105	3.0211	3.0216	3.0220	3.0224	3.0228
106	3.0253	3.0257	3.0261	3.0265	3.0269
107	3.0293	3.0297	3.0301	3.0306	3.0310
108	3.0334	3.0338	3.0342	3.0346	3.0350
109	3.0374	3.0378	3.0382	3.0386	3.0390
110	3.0413	3.0417	3.0421	3.0425	3.0429
111	3.0453	3.0457	3.0461	3.0464	3.0468
112	3.0492	3.0496	3.0499	3.0503	3.0507
113	3.0530	3.0534	3.0538	3.0542	3.0546
114	3.0569	3.0572	3.0576	3.0580	3.0584
115	3.0606	3.0610	3.0614	3.0618	3.0622
116	3.0644	3.0648	3.0652	3.0655	3.0659
117	3.0681	3.0685	3.0689	3.0692	3.0696
118	3.0718	3.0722	3.0726	3.0729	3.0733
119	3.0755	3.0759	3.0762	3.0766	3.0770

No.	5.	6.	7.	8.	9.
80	2.9057	2.9063	2.9068	2.9074	2.9079
81	2.9111	2.9116	2.9122	2.9127	2.9132
82	2.9164	2.9169	2.9175	2.9180	2.9185
83	2.9216	2.9222	2.9227	2.9232	2.9237
84	2.9268	2.9273	2.9278	2.9283	2.9289
85	2.9319	2.9324	2.9329	2.9334	2.9339
86	2.9370	2.9375	2.9380	2.9385	2.9390
87	2.9420	2.9425	2.9430	2.9434	2.9439
88	2.9469	2.9474	2.9479	2.9484	2.9489
89	2.9518	2.9523	2.9527	2.9532	2.9537
90	2.9566	2.9571	2.9576	2.9580	2.9585
91	2.9614	2.9618	2.9623	2.9628	2.9633
92	2.9661	2.9666	2.9670	2.9675	2.9680
93	2.9708	2.9712	2.9717	2.9722	2.9726
94	2.9754	2.9758	2.9763	2.9768	2.9772
95	2.9800	2.9804	2.9809	2.9813	2.9818
96	2.9845	2.9849	2.9854	2.9858	2.9863
97	2.9890	2.9894	2.9898	2.9903	2.9907
98	2.9934	2.9938	2.9943	2.9947	2.9951
99	2.9978	2.9982	2.9986	2.9991	2.9995
100	3.0021	3.0025	3.0030	3.0034	3.0038
101	3.0064	3.0068	3.0073	3.0077	3.0081
102	3.0107	3.0111	3.0115	3.0119	3.0124
103	3.0149	3.0153	3.0157	3.0161	3.0166
104	3.0191	3.0195	3.0199	3.0203	3.0207
105	3.0232	3.0236	3.0240	3.0244	3.0248
106	3.0273	3.0277	3.0281	3.0285	3.0289
107	3.0314	3.0318	3.0322	3.0326	3.0330
108	3.0354	3.0358	3.0362	3.0366	3.0370
109	3.0394	3.0398	3.0402	3.0406	3.0409
110	3.0433	3.0437	3.0441	3.0445	3.0449
111	3.0472	3.0476	3.0480	3.0484	3.0488
112	3.0511	3.0515	3.0519	3.0523	3.0526
113	3.0549	3.0553	3.0557	3.0561	3.0565
114	3.0588	3.0591	3.0595	3.0599	3.0603
115	3.0625	3.0629	3.0633	3.0637	3.0640
116	3.0663	3.0666	3.0670	3.0674	3.0678
117	3.0700	3.0704	3.0707	3.0711	3.0715
118	3.0737	3.0740	3.0744	3.0748	3.0751
119	3.0773	3.0777	3.0780	3.0784	3.0783

Numbers and their Common Logarithms, with the Index.

Min.	Sine	Co-sine.	Tangent.	Co-tang.	Secant.	12 Co-sec. 2 Co-ar.	Min.
0	0.0000	10.0000	0.0000	Infinite.	10.0000	Infinite.	60
1	6.4637	9.9999	6.4637	13.5362	10.0000	13.5362	56
2	6.7647	9.9999	6.7647	13.2352	10.0000	13.2352	58
3	6.9408	9.9999	6.9408	13.0591	10.0000	13.0591	57
4	7.0657	9.9999	7.0657	12.9342	10.0000	12.9342	56
5	7.1626	9.9999	7.1626	12.8373	10.0000	12.8373	55
6	7.2418	9.9999	7.2418	12.7581	10.0000	12.7581	54
7	7.3088	9.9999	7.3088	12.6911	10.0000	12.6911	53
8	7.3668	9.9999	7.3668	12.6331	10.0000	12.6331	52
9	7.4179	9.9999	7.4179	12.5820	10.0000	12.5820	51
10	7.4637	9.9999	7.4637	12.5362	10.0000	12.5362	50
11	7.5051	9.9999	7.5051	12.4948	10.0000	12.4948	49
12	7.5429	9.9999	7.5429	12.4570	10.0000	12.4570	48
13	7.5776	9.9999	7.5776	12.4223	10.0000	12.4223	47
14	7.6098	9.9999	7.6098	12.3901	10.0000	12.3901	46
15	7.6398	9.9999	7.6398	12.3601	10.0000	12.3601	45
16	7.6678	9.9999	7.6678	12.3321	10.0000	12.3321	44
17	7.6941	9.9999	7.6941	12.3058	10.0000	12.3058	43
18	7.7189	9.9999	7.7190	12.2809	10.0000	12.2810	42
19	7.7424	9.9999	7.7424	12.2575	10.0000	12.2575	41
20	7.7647	9.9999	7.7647	12.2352	10.0000	12.2352	40
21	7.7859	9.9999	7.7859	12.2140	10.0000	12.2140	39
22	7.8061	9.9999	7.8061	12.1938	10.0000	12.1938	38
23	7.8254	9.9999	7.8254	12.1745	10.0000	12.1745	37
24	7.8439	9.9999	7.8439	12.1560	10.0000	12.1560	36
25	7.8616	9.9999	7.8616	12.1383	10.0000	12.1383	35
26	7.8786	9.9999	7.8787	12.1212	10.0000	12.1213	34
27	7.8950	9.9999	7.8950	12.1049	10.0000	12.1049	33
28	7.9108	9.9999	7.9108	12.0891	10.0000	12.0891	32
29	7.9261	9.9999	7.9261	12.0738	10.0000	12.0738	31
30	7.9408	9.9999	7.9408	12.0591	10.0000	12.0591	30
Min.	Co-sine	Sine	Co-tang.	Tangent	10. Co-sec.	Secant 2 Co-ar.	Min.

Co-sines, Co-tangents, & Co-secants.

0 Degrees. 179°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
30	7.9408	9.9999	7.9408	12.0591	10.0000	12.0591	30
31	7.9550	9.9999	7.9551	12.0449	10.0000	12.0449	29
32	7.9688	9.9999	7.9688	12.0311	10.0000	12.0311	28
33	7.9822	9.9999	7.9822	12.0177	10.0000	12.0177	27
34	7.9951	9.9999	7.9952	12.0047	10.0000	12.0048	26
35	8.0077	9.9999	8.0078	11.9921	10.0000	11.9922	25
36	8.0200	9.9999	8.0200	11.9799	10.0000	11.9799	24
37	8.0319	9.9999	8.0319	11.9680	10.0000	11.9680	23
38	8.0435	9.9999	8.0435	11.9564	10.0000	11.9564	22
39	8.0547	9.9999	8.0548	11.9451	10.0000	11.9452	21
40	8.0657	9.9999	8.0658	11.9341	10.0000	11.9342	20
41	8.0765	9.9999	8.0765	11.9234	10.0000	11.9235	19
42	8.0869	9.9999	8.0869	11.9130	10.0000	11.9130	18
43	8.0971	9.9999	8.0972	11.9027	10.0000	11.9028	17
44	8.1071	9.9999	8.1072	11.8927	10.0000	11.8928	16
45	8.1169	9.9999	8.1169	11.8830	10.0000	11.8830	15
46	8.1264	9.9999	8.1265	11.8734	10.0000	11.8735	14
47	8.1358	9.9999	8.1358	11.8641	10.0000	11.8641	13
48	8.1449	9.9999	8.1449	11.8550	10.0000	11.8550	12
49	8.1539	9.9999	8.1539	11.8460	10.0000	11.8460	11
50	8.1626	9.9999	8.1627	11.8372	10.0000	11.8373	10
51	8.1712	9.9999	8.1713	11.8286	10.0000	11.8287	9
52	8.1797	9.9999	8.1797	11.8202	10.0000	11.8202	8
53	8.1879	9.9999	8.1880	11.8119	10.0000	11.8120	7
54	8.1961	9.9999	8.1961	11.8038	10.0000	11.8038	6
55	8.2040	9.9999	8.2041	11.7958	10.0000	11.7959	5
56	8.2118	9.9999	8.2119	11.7880	10.0000	11.7881	4
57	8.2195	9.9999	8.2196	11.7803	10.0000	11.7804	3
58	8.2271	9.9999	8.2271	11.7728	10.0000	11.7728	2
59	8.2345	9.9999	8.2346	11.7653	10.0000	11.7654	1
60	8.2418	9.9999	8.2419	11.7580	10.0000	11.7581	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

90° Degrees. 89°

1 Degree 178°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-fec.* 1. *Co-ar.*	Min.
0	8.2418	9.9999	8.2419	11.7580	10.0000	11.7581	60
1	8.2490	9.9999	8.2491	11.7508	10.0000	11.7509	59
2	8.2560	9.9999	8.2561	11.7438	10.0000	11.7439	58
3	8.2630	9.9999	8.2631	11.7368	10.0000	11.7369	57
4	8.2698	9.9999	8.2699	11.7300	10.0000	11.7301	56
5	8.2766	9.9999	8.2766	11.7233	10.0000	11.7233	55
6	8.2832	9.9999	8.2833	11.7166	10.0000	11.7167	54
7	8.2897	9.9999	8.2898	11.7101	10.0000	11.7102	53
8	8.2962	9.9999	8.2962	11.7037	10.0000	11.7037	52
9	8.3025	9.9999	8.3026	11.6973	10.0000	11.6974	51
10	8.3087	9.9999	8.3088	11.6911	10.0000	11.6912	50
11	8.3149	9.9999	8.3150	11.6849	10.0000	11.6850	49
12	8.3210	9.9999	8.3211	11.6788	10.0000	11.6789	48
13	8.3270	9.9999	8.3271	11.6728	10.0000	11.6729	47
14	8.3329	9.9998	8.3330	11.6669	10.0001	11.6670	46
15	8.3387	9.9998	8.3388	11.6611	10.0001	11.6612	45
16	8.3445	9.9998	8.3446	11.6553	10.0001	11.6554	44
17	8.3501	9.9998	8.3502	11.6497	10.0001	11.6498	43
18	8.3557	9.9998	8.3558	11.6441	10.0001	11.6442	42
19	8.3613	9.9998	8.3614	11.6385	10.0001	11.6386	41
20	8.3667	9.9998	8.3668	11.6331	10.0001	11.6332	40
21	8.3721	9.9998	8.3722	11.6277	10.0001	11.6278	39
22	8.3774	9.9998	8.3776	11.6223	10.0001	11.6225	38
23	8.3827	9.9998	8.3828	11.6171	10.0001	11.6172	37
24	8.3879	9.9998	8.3880	11.6119	10.0001	11.6120	36
25	8.3931	9.9998	8.3932	11.6067	10.0001	11.6068	35
26	8.3981	9.9998	8.3983	11.6016	10.0001	11.6018	34
27	8.4031	9.9998	8.4033	11.5966	10.0001	11.5968	33
28	8.4081	9.9998	8.4083	11.5916	10.0001	11.5918	32
29	8.4130	9.9998	8.4132	11.5867	10.0001	11.5869	31
30	8.4179	9.9998	8.4180	11.5819	10.0001	11.5820	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant	Min.

91°. Degrees 88.

Co-sines, Co-tangents, & Co-secants.

1 Degree. 178°.

Min.	Sine.	*Co-sine.*	Tangent.	*Cotang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
30	8.4179	9.9998	8.4180	11.5819	10.0001	11.5820	30
31	8.4227	9.9998	8.4228	11.5771	10.0001	11.5772	29
32	8.4274	9.9998	8.4276	11.5723	10.0001	11.5725	28
33	8.4321	9.9998	8.4323	11.5676	10.0001	11.5678	27
34	8.4368	9.9998	8.4369	11.5630	10.0001	11.5632	26
35	8.4413	9.9998	8.4415	11.5584	10.0001	11.5586	25
36	8.4459	9.9998	8.4461	11.5538	10.0001	11.5540	24
37	8.4504	9.9998	8.4506	11.5493	10.0001	11.5495	23
38	8.4548	9.9998	8.4550	11.5449	10.0001	11.5451	22
39	8.4593	9.9998	8.4594	11.5405	10.0001	11.5406	21
40	8.4636	9.9998	8.4638	11.5361	10.0001	11.5363	20
41	8.4679	9.9998	8.4681	11.5318	10.0001	11.5320	19
42	8.4722	9.9998	8.4724	11.5275	10.0001	11.5277	18
43	8.4764	9.9998	8.4766	11.5233	10.0001	11.5235	17
44	8.4806	9.9998	8.4808	11.5191	10.0001	11.5193	16
45	8.4848	9.9997	8.4850	11.5149	10.0002	11.5151	15
46	8.4889	9.9997	8.4891	11.5108	10.0002	11.5110	14
47	8.4930	9.9997	8.4932	11.5067	10.0002	11.5069	13
48	8.4970	9.9997	8.4972	11.5027	10.0002	11.5029	12
49	8.5010	9.9997	8.5012	11.4987	10.0002	11.4989	11
50	8.5050	9.9997	8.5052	11.4947	10.0002	11.4949	10
51	8.5089	9.9997	8.5092	11.4908	10.0002	11.4910	9
52	8.5128	9.9997	8.5130	11.4869	10.0002	11.4871	8
53	8.5167	9.9997	8.5169	11.4830	10.0002	11.4832	7
54	8.5205	9.9997	8.5207	11.4792	10.0002	11.4794	6
55	8.5243	9.9997	8.5245	11.4754	10.0002	11.4756	5
56	8.5281	9.9997	8.5283	11.4716	10.0002	11.4718	4
57	8.5318	9.9997	8.5320	11.4679	10.0002	11.4681	3
58	8.5355	9.9997	8.5357	11.4642	10.0002	11.4644	2
59	8.5391	9.9997	8.5394	11.4605	10.0002	11.4608	1
60	8.5428	9.9997	8.5430	11.4569	10.0002	11.4571	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

91°. Degrees 88

2 Degrees. 177°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11 *Co-sec.* 1 *Co-ar.*	Min.
0	8.5428	9.9997	8.5430	11.4569	10.0002	11.4571	60
1	8.5464	9.9997	8.5466	11.4533	10.0002	11.4535	59
2	8.5499	9.9997	8.5502	11.4497	10.0002	11.4500	58
3	8.5535	9.9997	8.5538	11.4461	10.0002	11.4464	57
4	8.5570	9.9997	8.5573	11.4426	10.0002	11.4429	56
5	8.5605	9.9997	8.5608	11.4391	10.0002	11.4394	55
6	8.5639	9.9997	8.5642	11.4357	10.0002	11.4360	54
7	8.5674	9.9997	8.5677	11.4322	10.0002	11.4325	53
8	8.5708	9.9996	8.5711	11.4288	10.0003	11.4291	52
9	8.5742	9.9996	8.5745	11.4254	10.0003	11.4257	51
10	8.5775	9.9996	8.5778	11.4221	10.0003	11.4224	50
11	8.5808	9.9996	8.5812	11.4187	10.0003	11.4191	49
12	8.5841	9.9996	8.5845	11.4154	10.0003	11.4158	48
13	8.5874	9.9996	8.5877	11.4122	10.0003	11.4125	47
14	8.5907	9.9996	8.5910	11.4089	10.0003	11.4092	46
15	8.5939	9.9996	8.5942	11.4057	10.0003	11.4060	45
16	8.5971	9.9996	8.5974	11.4025	10.0003	11.4028	44
17	8.6003	9.9996	8.6006	11.3993	10.0003	11.3996	43
18	8.6034	9.9996	8.6038	11.3961	10.0003	11.3965	42
19	8.6066	9.9996	8.6069	11.3930	10.0003	11.3933	41
20	8.6097	9.9996	8.6100	11.3899	10.0003	11.3902	40
21	8.6128	9.9996	8.6131	11.3868	10.0003	11.3871	39
22	8.6158	9.9996	8.6162	11.3837	10.0003	11.3841	38
23	8.6189	9.9996	8.6193	11.3806	10.0003	11.3810	37
24	8.6219	9.9996	8.6223	11.3776	10.0003	11.3780	36
25	8.6249	9.9996	8.6253	11.3746	10.0003	11.3750	35
26	8.6279	9.9996	8.6283	11.3716	10.0003	11.3720	34
27	8.6309	9.9996	8.6313	11.3686	10.0003	11.3690	33
28	8.6338	9.9995	8.6342	11.3657	10.0004	11.3661	32
29	8.6367	9.9995	8.6371	11.3628	10.0004	11.3632	31
30	8.6396	9.9995	8.6400	11.3599	10.0004	11.3603	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co. ar.*	Secant.	Min.

92°. Degrees 87

Co-sines, Co-tangents, & Co-secants.

2 Degrees. 177°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
30	8.6396	9.9995	8.6400	11.3599	10.0004	11.3603	30
31	8.6425	9.9995	8.6429	11.3570	10.0004	11.3574	29
32	8.6454	9.9995	8.6458	11.3541	10.0004	11.3545	28
33	8.6482	9.9995	8.6487	11.3512	10.0004	11.3517	27
34	8.6511	9.9995	8.6515	11.3484	10.0004	11.3488	26
35	8.6539	9.9995	8.6543	11.3456	10.0004	11.3460	25
36	8.6567	9.9995	8.6571	11.3428	10.0004	11.3432	24
37	8.6594	9.9995	8.6599	11.3400	10.0004	11.3405	23
38	8.6622	9.9995	8.6626	11.3373	10.0004	11.3377	22
39	8.6649	9.9995	8.6654	11.3345	10.0004	11.3350	21
40	8.6676	9.9995	8.6681	11.3318	10.0004	11.3323	20
41	8.6703	9.9995	8.6708	11.3291	10.0004	11.3296	19
42	8.6730	9.9995	8.6735	11.3264	10.0004	11.3269	18
43	8.6757	9.9995	8.6762	11.3237	10.0004	11.3242	17
44	8.6784	9.9995	8.6789	11.3211	10.0004	11.3215	16
45	8.6810	9.9995	8.6815	11.3184	10.0005	11.3189	15
46	8.6836	9.9994	8.6841	11.3158	10.0005	11.3163	14
47	8.6862	9.9994	8.6867	11.3132	10.0005	11.3137	13
48	8.6888	9.9994	8.6893	11.3106	10.0005	11.3111	12
49	8.6914	9.9994	8.6919	11.3080	10.0005	11.3085	11
50	8.6939	9.9994	8.6945	11.3054	10.0005	11.3060	10
51	8.6965	9.9994	8.6970	11.3029	10.0005	11.3034	9
52	8.6990	9.9994	8.6996	11.3003	10.0005	11.3009	8
53	8.7015	9.9974	8.7021	11.2978	10.0005	11.2984	7
54	8.7040	9.9994	8.7046	11.2953	10.0005	11.2959	6
55	8.7065	9.9994	8.7071	11.2928	10.0005	11.2934	5
56	8.7090	9.9994	8.7096	11.2903	10.0005	11.2909	4
57	8.7115	9.9994	8.7120	11.2879	10.0005	11.2884	3
58	8.7139	9.9994	8.7145	11.2854	10.0005	11 2860	2
59	8.7163	9.9994	8.7169	11.2830	10.0005	11.2836	1
60	8.7718	9.9994	8.7193	11.2806	10.0005	11.2812	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

92°. Degrees 87

3 Degrees 176°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
0	8.7188	9.9994	8.7193	11.2806	10.0005	11.2812	60
1	8.7212	9.9993	8.7218	11.2781	10.0006	11.2787	59
2	8.7235	9.9993	8.7242	11.2757	10.0006	11.2764	58
3	8.7259	9.9993	8.7265	11.2734	10.0006	11.2740	57
4	8.7283	9.9993	8.7289	11.2710	10.0006	11.2716	56
5	8.7306	9.9993	8.7313	11.2686	10.0006	11.2693	55
6	8.7330	9.9993	8.7336	11.2663	10.0006	11.2669	54
7	8.7353	9.9993	8.7359	11.2640	10.0006	11.2646	53
8	8.7376	9.9993	8.7383	11.2616	10.0006	11.2623	52
9	8.7399	9.9993	8.7406	11.2593	10.0006	11.2600	51
10	8.7422	9.9993	8.7429	11.2570	10.0006	11.2577	50
11	8.7445	9.9993	8.7452	11.2547	10.0006	11.2554	49
12	8.7468	9.9993	8.7474	11.2525	10.0006	11.2531	48
13	8.7490	9.9993	8.7497	11.2502	10.0006	11.2509	47
14	8.7512	9.9993	8.7519	11.2480	10.0006	11.2487	46
15	8.7535	9.9993	8.7542	11.2457	10.0006	11.2464	45
16	8.7557	9.9992	8.7564	11.2435	10.0007	11.2442	44
17	8.7579	9.9992	8.7586	11.2413	10.0007	11.2420	43
18	8.7601	9.9992	8.7608	11.2391	10.0007	11.2398	42
19	8.7623	9.9992	8.7630	11.2369	10.0007	11.2376	41
20	8.7645	9.9992	8.7652	11.2347	10.0007	11.2354	40
21	8.7666	9.9992	8.7674	11.2325	10.0007	11.2333	39
22	8.7688	9.9992	8.7695	11.2304	10.0007	11.2311	38
23	8.7709	9.9992	8.7717	11.2282	10.0007	11.2290	37
24	8.7731	9.9992	8.7738	11.2261	10.0007	11.2268	36
25	8.7752	9.9992	8.7759	11.2240	10.0007	11.2247	35
26	8.7773	9.9992	8.7781	11.2218	10.0007	11.2226	34
27	8.7794	9.9992	8.7802	11.2197	10.0007	11.2205	33
28	8.7815	9.9992	8.7823	11.2176	10.0007	11.2184	32
29	8.7836	9.9991	8.7844	11.2155	10.0008	11.2163	31
30	8.7856	9.9991	8.7864	11.2135	10.0008	11.2143	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

93°. Degrees 86,

3 Degrees. 176°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
30	8.7856	9.9991	8.7864	11.2135	10.0008	11.2143	30
31	8.7877	9.9991	8.7885	11.2114	10.0008	11.2122	29
32	8.7897	9.9991	8.7906	11.2093	10.0008	11.2102	28
33	8.7918	9.9991	8.7926	11.2073	10.0008	11.2081	27
34	8.7938	9.9991	8.7947	11.2052	10.0008	11.2061	26
35	8.7958	9.9991	8.7967	11.2032	10.0008	11.2041	25
36	8.7978	9.9991	8.7987	11.2012	10.0008	11.2021	24
37	8.7998	9.9991	8.8007	11.1992	10.0008	11.2001	23
38	8.8018	9.9991	8.8027	11.1972	10.0008	11.1981	22
39	8.8038	9.9991	8.8047	11.1952	10.0008	11.1961	21
40	8.8058	9.9991	8.8067	11.1932	10.0008	11.1941	20
41	8.8078	9.9991	8.8087	11.1912	10.0008	11.1921	19
42	8.8097	9.9990	8.8106	11.1893	10.0009	11.1902	18
43	8.8117	9.9990	8.8126	11.1873	10.0009	11.1882	17
44	8.8136	9.9990	8.8145	11.1854	10.0009	11.1863	16
45	8.8155	9.9990	8.8165	11.1834	10.0009	11.1844	15
46	8.8175	9.9990	8.8184	11.1815	10.0009	11.1824	14
47	8.8194	9.9990	8.8203	11.1796	10.0009	11.1805	13
48	8.8213	9.9990	8.8222	11.1777	10.0009	11.1786	12
49	8.8232	9.9990	8.8242	11.1757	10.0009	11.1767	11
50	8.8251	9.9990	8.8261	11.1738	10.0009	11.1748	10
51	8.8270	9.9990	8.8279	11.1720	10.0009	11.1729	9
52	8.8288	9.9990	8.8298	11.1701	10.0009	11.1711	8
53	8.8307	9.9990	8.8317	11.1682	10.0009	11.1692	7
54	8.8326	9.9989	8.8336	11.1663	10.0010	11.1673	6
55	8.8344	9.9989	8.8354	11.1645	10.0010	11.1655	5
56	8.8362	9.9989	8.8373	11.1626	10.0010	11.1637	4
57	8.8381	9.9989	8.8391	11.1608	10.0010	11.1618	3
58	8.8399	9.9989	8.8409	11.1590	10.0010	11.1600	2
59	8.8417	9.9989	8.8428	11.1571	10.0010	11.1582	1
60	8.8435	9.9989	8.8446	11.1553	10.0010	11.1564	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

93°. Degrees 86

4 Degrees. 175°

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-fec.* 1. *Co-ar.*	Min.
0	8.8435	9.9989	8.8446	11.1553	10.0010	11.1564	60
1	8.8453	9.9989	8.8464	11.1535	10.0010	11.1546	59
2	8.8471	9.9989	8.8482	11.1517	10.0010	11.1528	58
3	8.8489	9.9989	8.8500	11.1499	10.0010	11.1510	57
4	8.8507	9.9989	8.8518	11.1481	10.0010	11.1492	56
5	8.8525	9.9988	8.8536	11.1463	10.0011	11.1474	55
6	8.8542	9.9988	8.8554	11.1445	10.0011	11.1457	54
7	8.8560	9.9988	8.8571	11.1428	10.0011	11.1439	53
8	8.8578	9.9988	8.8589	11.1410	10.0011	11.1421	52
9	8.8595	9.9988	8.8606	11.1393	10.0011	11.1404	51
10	8.8612	9.9988	8.8624	11.1375	10.0011	11.1387	50
11	8.8630	9.9988	8.8641	11.1358	10.0011	11.1369	49
12	8.8647	9.9988	8.8659	11.1340	10.0011	11.1352	48
13	8.8664	9.9988	8.8676	11.1323	10.0011	11.1335	47
14	8.8681	9.9988	8.8693	11.1306	10.0011	11.1318	46
15	8.8698	9.9988	8.8710	11.1289	10.0011	11.1301	45
16	8.8715	9.9987	8.8727	11.1272	10.0012	11.1284	44
17	8.8732	9.9987	8.8744	11.1255	10.0012	11.1267	43
18	8.8749	9.9987	8.8761	11.1238	10.0012	11.1250	42
19	8.8766	9.9987	8.8778	11.1221	10.0012	11.1233	41
20	8.8782	9.9987	8.8795	11.1204	10.0012	11.1217	40
21	8.8799	9.9987	8.8812	11.1187	10.0012	11.1200	39
22	8.8816	9.9987	8.8828	11.1171	10.0012	11.1183	38
23	8.8832	9.9987	8.8845	11.1154	10.0012	11.1167	37
24	8.8849	9.9987	8.8861	11.1138	10.0012	11.1150	36
25	8.8865	9.9987	8.8878	11.1121	10.0012	11.1134	35
26	8.8881	9.9986	8.8894	11.1105	10.0013	11.1118	34
27	8.8898	9.9986	8.8911	11.1088	10.0013	11.1101	33
28	8.8914	9.9986	8.8927	11.1072	10.0013	11.1085	32
29	8.8930	9.9986	8.8943	11.1056	10.0013	11.1069	31
30	8.8946	9.9986	8.8959	11.1040	10.0013	11.1053	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 9. *Co-ar.*	Secant.	Min.

94°. Degrees 85

Co-sines, Co-tangents, & Co-secants.

4 Degrees. 175°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
30	8.8946	9.9986	8.8959	11.1040	10.0013	11.1053	30
31	8.8962	9.9986	8.8975	11.1024	10.0013	11.1037	29
32	8.8978	9.9986	8.8992	11.1007	10.0013	11.1021	28
33	8.8994	9.9986	8.9008	11.0991	10.0013	11.1005	27
34	8.9010	9.9986	8.9023	11.0976	10.0013	11.0989	26
35	8.9025	9.9986	8.9039	11.0960	10.0013	11.0974	25
36	8.9041	9.9985	8.9055	11.0944	10.0014	11.0958	24
37	8.9057	9.9985	8.9071	11.0928	10.0014	11.0942	23
38	8.9072	9.9985	8.9087	11.0912	10.0014	11.0927	22
39	8.9088	9.9985	8.9102	11.0897	10.0014	11.0911	21
40	8.9104	9.9985	8.9118	11.0881	10.0014	11.0895	20
41	8.9119	9.9985	8.9134	11.0865	10.0014	11.0880	19
42	8.9134	9.9985	8.9149	11.0850	10.0014	11.0865	18
43	8.9150	9.9985	8.9164	11.0835	10.0014	11.0849	17
44	8.9165	9.9985	8.9180	11.0819	10.0014	11.0834	16
45	8.9180	9.9985	8.9195	11.0804	10.0014	11.0819	15
46	8.9195	9.9984	8.9210	11.0789	10.0015	11.0804	14
47	8.9211	9.9984	8.9226	11.0773	10.0015	11.0788	13
48	8.9226	9.9984	8.9241	11.0758	10.0015	11.0773	12
49	8.9241	9.9984	8.9256	11.0743	10.0015	11.0758	11
50	8.9256	9.9984	8.9271	11.0728	10.0015	11.0743	10
51	8.9271	9.9984	8.9286	11.0713	10.0015	11.0729	9
52	8.9285	9.9984	8.9301	11.0698	10.0015	11.0714	8
53	8.9300	9.9984	8.9316	11.0683	10.0015	11.0699	7
54	8.9315	9.9984	8.9331	11.0668	10.0015	11.0684	6
55	8.9330	9.9983	8.9346	11.0653	10.0016	11.0669	5
56	8.9344	9.9983	8.9360	11.0639	10.0016	11.0655	4
57	8.9359	9.9983	8.9375	11.0624	10.0016	11.0640	3
58	8.9373	9.9983	8.9390	11.0609	10.0016	11.0626	2
59	8.9388	9.9983	8.9404	11.0595	10.0016	11.0611	1
60	8.9402	9.9983	8.9419	11.0580	10.0016	11.0597	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

94°. Degrees 85

5 Degrees 174°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-sec.* 1. *Co-ar.*	Min.
0	8.9402	9.9983	8.9419	11.0580	10.0016	11.0597	60
1	8.9417	9.9983	8.9434	11.0565	10.0016	11.0582	59
2	8.9431	9.9983	8.9448	11.0551	10.0016	11.0568	58
3	8.9446	9.9983	8.9462	11.0537	10.0016	11.0553	57
4	8.9460	9.9983	8.9477	11.0522	10.0017	11.0539	56
5	8.9474	9.9982	8.9491	11.0508	10.0017	11.0525	55
6	8.9488	9.9982	8.9505	11.0494	10.0017	11.0511	54
7	8.9502	9.9982	8.9520	11.0479	10.0017	11.0497	53
8	8.9516	9.9982	8.9534	11.0465	10.0017	11.0483	52
9	8.9531	9.9982	8.9548	11.0451	10.0017	11.0469	51
10	8.9544	9.9982	8.9562	11.0437	10.0017	11.0455	50
11	8.9558	9.9982	8.9576	11.0423	10.0017	11.0441	49
12	8.9572	9.9982	8.9590	11.0409	10.0017	11.0427	48
13	8.9586	9.9981	8.9604	11.0395	10.0018	11.0413	47
14	8.9600	9.9981	8.9618	11.0381	10.0018	11.0399	46
15	8.9614	9.9981	8.9632	11.0367	10.0018	11.0385	45
16	8.9628	9.9981	8.9646	11.0353	10.0018	11.0371	44
17	8.9641	9.9981	8.9660	11.0339	10.0018	11.0358	43
18	8.9655	9.9981	8.9673	11.0326	10.0018	11.0344	42
19	8.9668	9.9981	8.9687	11.0312	10.0018	11.0331	41
20	8.9682	9.9981	8.9701	11.0298	10.0018	11.0317	40
21	8.9696	9.9981	8.9714	11.0285	10.0018	11.0304	39
22	8.9709	9.9980	8.9728	11.0271	10.0019	11.0290	38
23	8.9722	9.9980	8.9742	11.0257	10.0019	11.0277	37
24	8.9736	9.9980	8.9755	11.0244	10.0019	11.0263	36
25	8.9749	9.9980	8.9769	11.0230	10.0019	11.0250	35
26	8.9762	9.9980	8.9782	11.0217	10.0019	11.0237	34
27	8.9776	9.9980	8.9795	11.0204	10.0019	11.0223	33
28	8.9789	9.9980	8.9809	11.0190	10.0019	11.0210	32
29	8.9802	9.9980	8.9822	11.0177	10.0019	11.0197	31
30	8.9815	9.9979	8.9835	11.0164	10.0020	11.0184	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

95°. Degrees 84

Co-fines, Co-tangents, & Co-fecants.

5 Degrees. 174°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	11. *Co-fec.* 1. *Co-ar.*	Min.
30	8.9815	9.9979	8.9835	11.0164	10.0020	11.0184	30
31	8.9828	9.9979	8.9848	11.0151	10.0020	11.0171	29
32	8.9841	9.9979	8.9862	11.0137	10.0020	11.0158	28
33	8.9854	9.9979	8.9875	11.0124	10.0020	11.0145	27
34	8.9867	9.9979	8.9888	11.0111	10.0020	11.0132	26
35	8.9880	9.9979	8.9901	11.0098	10.0020	11.0119	25
36	8.9893	9.9979	8.9914	11.0085	10.0020	11.0106	24
37	8.9906	9.9979	8.9927	11.0072	10.0020	11.0093	23
38	8.9919	9.9978	8.9940	11.0059	10.0021	11.0080	22
39	8.9932	9.9978	8.9953	11.0046	10.0021	11.0067	21
40	8.9944	9.9978	8.9966	11.0033	10.0021	11.0055	20
41	8.9957	9.9978	8.9979	11.0020	10.0021	11.0042	19
42	8.9970	9.9978	8.9991	11.0008	10.0021	11.0029	18
43	8.9982	9.9978	9.0004	10.9995	10.0021	11.0017	17
44	8.9995	9.9978	9.0017	10.9982	10.0021	11.0004	16
45	9.0008	9.9978	9.0030	10.9969	10.0021	10.9991	15
46	9.0020	9.9977	9.0042	10.9957	10.0022	10.9979	14
47	9.0033	9.9977	9.0055	10.9944	10.0022	10.9966	13
48	9.0045	9.9977	9.0067	10.9932	10.0022	10.9954	12
49	9.0058	9.9977	9.0080	10.9919	10.0022	10.9941	11
50	9.0070	9.9977	9.0092	10.9907	10.0022	10.9929	10
51	9.0082	9.9977	9.0105	10.9894	10.0022	10.9917	9
52	9.0095	9.9977	9.0117	10.9882	10.0022	10.9904	8
53	9.0107	9.9977	9.0130	10.9869	10.0022	10.9892	7
54	9.0119	9.9976	9.0142	10.9857	10.0023	10.9880	6
55	9.0131	9.9976	9.0155	10.9844	10.0023	10.9868	5
56	9.0144	9.9976	9.0167	10.9832	10.0023	10.9856	4
57	9.0156	9.9976	9.0179	10.9820	10.0023	10.9843	3
58	9.0168	9.9976	9.0191	10.9808	10.0023	10.9831	2
59	9.0180	9.9976	9.0204	10.9795	10.0023	10.9819	1
60	9.0192	9.9976	9.0216	10.9783	10.0023	10.9807	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

95°. Degrees 84

6 Degrees. 173°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant. 10.	*Co-sec.* 0.	*Co-ar.*	Min.
0	9.0192	9.9976	9.0216	10.9783	10.0023	10.9807		60
1	9.0204	9.9976	9.0228	10.9771	10.0023	10.9795		59
2	9.0216	9.9975	9.0240	10.9759	10.0024	10.9783		58
3	9.0228	9.9975	9.0252	10.9747	10.0024	10.9771		57
4	9.0240	9.9975	9.0264	10.9735	10.0024	10.9759		56
5	9.0252	9.9975	9.0276	10.9723	10.0024	10.9747		55
6	9.0263	9.9975	9.0288	10.9711	10.0024	10.9736		54
7	9.0275	9.9975	9.0300	10.9699	10.0024	10.9724		53
8	9.0287	9.9975	9.0312	10.9687	10.0024	10.9712		52
9	9.0299	9.9974	9.0324	10.9675	10.0025	10.9700		51
10	9.0310	9.9974	9.0336	10.9663	10.0025	10.9689		50
11	9.0322	9.9974	9.0347	10.9652	10.0025	10.9677		49
12	9.0334	9.9974	9.0359	10.9640	10.0025	10.9665		48
13	9.0345	9.9974	9.0371	10.9628	10.0025	10.9654		47
14	9.0357	9.9974	9.0383	10.9616	10.0025	10.9642		46
15	9.0368	9.9974	9.0394	10.9605	10.0025	10.9631		45
16	9.0380	9.9973	9.0406	10.9593	10.0026	10.9619		44
17	9.0391	9.9973	9.0418	10.9581	10.0026	10.9608		43
18	9.0403	9.9973	9.0429	10.9570	10.0026	10.9596		42
19	9.0414	9.9973	9.0441	10.9558	10.0026	10.9585		41
20	9.0426	9.9973	9.0452	10.9547	10.0026	10.9573		40
21	9.0437	9.9973	9.0464	10.9535	10.0026	10.9562		39
22	9.0448	9.9973	9.0475	10.9524	10.0026	10.9551		38
23	9.0460	9.9972	9.0487	10.9512	10.0027	10.9539		37
24	9.0471	9.9972	9.0498	10.9501	10.0027	10.9528		36
25	9.0482	9.9972	9.0510	10.9489	10.0027	10.9517		35
26	9.0494	9.9972	9.0521	10.9478	10.0027	10.9506		34
27	9.0505	9.9972	9.0532	10.9467	10.0027	10.9494		33
28	9.0516	9.9972	9.0544	10.9455	10.0027	10.9483		32
29	9.0527	9.9972	9.0555	10.9444	10.0027	10.9472		31
30	9.0538	9.9971	9.0566	10.9433	10.0028	10.9461		30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10.	*Co-sec.* 0.	*Co-ar.* Secant.	Min.

6 Degrees. 173°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 1. *Co-ar.*	Min.
30	9.0538	9.9971	9.0566	10.9433	10.0028	10.9461	30
31	9.0549	9.9971	9.0577	10.9422	10.0028	10.9450	29
32	9.0560	9.9971	9.0589	10.9411	10.0028	10.9439	28
33	9.0571	9.9971	9.0600	10.9399	10.0028	10.9428	27
34	9.0582	9.9971	9.0611	10.9388	10.0028	10.9417	26
35	9.0593	9.9971	9.0622	10.9377	10.0028	10.9406	25
36	9.0604	9.9971	9.0633	10.9366	10.0028	10.9395	24
37	9.0615	9.9970	9.0644	10.9355	10.0029	10.9384	23
38	9.0626	9.9970	9.0655	10.9344	10.0029	10.9373	22
39	9.0637	9.9970	9.0666	10.9333	10.0029	10.9362	21
40	9.0648	9.9970	9.0677	10.9322	10.0029	10.9351	20
41	9.0658	9.9970	9.0688	10.9311	10.0029	10.9341	19
42	9.0669	9.9970	9.0699	10.9300	10.0029	10.9330	18
43	9.0680	9.9970	9.0710	10.9289	10.0029	10.9319	17
44	9.0691	9.9969	9.0721	10.9278	10.0030	10.9308	16
45	9.0701	9.9969	9.0731	10.9268	10.0030	10.9298	15
46	9.0712	9.9969	9.0742	10.9257	10.0030	10.9287	14
47	9.0723	9.9969	9.0753	10.9246	10.0030	10.9276	13
48	9.0733	9.9969	9.0764	10.9235	10.0030	10.9266	12
49	9.0744	9.9969	9.0775	10.9224	10.0030	10.9255	11
50	9.0754	9.9969	9.0785	10.9214	10.0030	10.9245	10
51	9.0765	9.9968	9.0796	10.9203	10.0031	10.9234	9
52	9.0775	9.9968	9.0807	10.9192	10.0031	10.9224	8
53	9.0786	9.9968	9.0817	10.9182	10.0031	10.9213	7
54	9.0796	9.9968	9.0828	10.9171	10.0031	10.9203	6
55	9.0807	9.9968	9.0838	10.9161	10.0031	10.9192	5
56	9.0817	9.9968	9.0849	10.9150	10.0031	10.9182	4
57	9.0827	9.9967	9.0860	10.9140	10.0032	10.9172	3
58	9.0838	9.9967	9.0870	10.9129	10.0032	10.9161	2
59	9.0848	9.9967	9.0880	10.9119	10.0032	10.9151	1
60	9.0858	9.9967	9.0891	10.9108	10.0032	10.9141	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

96°, Degrees 83.

7 Degrees. 172°

Min.	Sine	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 2 *Co-ar.*	Min.
0	9.0858	9.9967	9.0891	10.9108	10.0032	10.9141	60
1	9.0869	9.9967	9.0901	10.9098	10.0032	10.9130	59
2	9.0879	9.9967	9.0912	10.9087	10.0032	10.9120	58
3	9.0889	9.9967	9.0922	10.9077	10.0032	10.9110	57
4	9.0899	9.9966	9.0933	10.9066	10.0033	10.9100	56
5	9.0910	9.9966	9.0943	10.9056	10.0033	10.9089	55
6	9.0920	9.9966	9.0953	10.9046	10.0033	10.9079	54
7	9.0930	9.9966	9.0963	10.9036	10.0033	10.9069	53
8	9.0940	9.9966	9.0974	10.9025	10.0033	10.9059	52
9	9.0950	9.9966	9.0984	10.9015	10.0033	10.9049	51
10	9.0960	9.9965	9.0994	10.9005	10.0034	10.9039	50
11	9.0970	9.9965	9.1004	10.8995	10.0034	10.9029	49
12	9.0980	9.9965	9.1015	10.8984	10.0034	10.9019	48
13	9.0990	9.9965	9.1025	10.8974	10.0034	10.9009	47
14	9.1000	9.9965	9.1035	10.8964	10.0034	10.8999	46
15	9.1010	9.9965	9.1045	10.8954	10.0034	10.8989	45
16	9.1020	9.9964	9.1055	10.8944	10.0035	10.8979	44
17	9.1030	9.9964	9.1065	10.8934	10.0035	10.8969	43
18	9.1040	9.9964	9.1075	10.8924	10.0035	10.8959	42
19	9.1050	9.9964	9.1085	10.8914	10.0035	10.8949	41
20	9.1059	9.9964	9.1095	10.8904	10.0035	10.8940	40
21	9.1069	9.9964	9.1105	10.8894	10.0035	10.8930	39
22	9.1079	9.9964	9.1115	10.8884	10.0036	10.8920	38
23	9.1089	9.9963	9.1125	10.8874	10.0036	10.8910	37
24	9.1099	9.9963	9.1135	10.8864	10.0036	10.8900	36
25	9.1108	9.9963	9.1145	10.8854	10.0036	10.8891	35
26	9.1118	9.9963	9.1155	10.8844	10.0036	10.8881	34
27	9.1128	9.9963	9.1164	10.8835	10.0036	10.8871	33
28	9.1138	9.9963	9.1174	10.8825	10.0036	10.8862	32
29	9.1147	9.9962	9.1184	10.8815	10.0037	10.8852	31
30	9.1156	9.9962	9.1194	10.8805	10.0037	10.8843	30
Min.	*Co-sine.*	Sine.	*Cotang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

97°. Degrees 82.

7 Degrees. 172°.

Min.	Sine.	*Co-sine.*	Tangent	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.1156	9.9962	9.1194	10.8805	10.0037	10.8843	30
31	9.1166	9.9962	9.1204	10.8795	10.0037	10.8833	29
32	9.1176	9.9962	9.1213	10.8786	10.0037	10.8823	28
33	9.1185	9.9962	9.1223	10.8776	10.0037	10.8814	27
34	9.1195	9.9962	9.1233	10.8766	10.0037	10.8804	26
35	9.1204	9.9961	9.1242	10.8757	10.0038	10.8795	25
36	9.1214	9.9961	9.1252	10.8747	10.0038	10.8785	24
37	9.1223	9.9961	9.1262	10.8737	10.0038	10.8776	23
38	9.1233	9.9961	9.1271	10.8728	10.0038	10.8766	22
39	9.1242	9.9961	9.1281	10.8718	10.0038	10.8757	21
40	9.1251	9.9961	9.1290	10.8709	10.0039	10.8748	20
41	9.1261	9.9960	9.1300	10.8699	10.0039	10.8738	19
42	9.1270	9.9960	9.1309	10.8690	10.0039	10.8729	18
43	9.1279	9.9960	9.1319	10.8680	10.0039	10.8720	17
44	9.1289	9.9960	9.1328	10.8671	10.0039	10.8710	16
45	9.1298	9.9960	9.1338	10.8661	10.0039	10.8701	15
46	9.1307	9.9959	9.1347	10.8652	10.0040	10.8692	14
47	9.1317	9.9959	9.1357	10.8642	10.0040	10.8682	13
48	9.1326	9.9959	9.1366	10.8633	10.0040	10.8673	12
49	9.1335	9.9959	9.1376	10.8623	10.0040	10.8664	11
50	9.1344	9.9959	9.1385	10.8614	10.0040	10.8655	10
51	9.1353	9.9959	9.1394	10.8605	10.0040	10.8646	9
52	9.1363	9.9958	9.1404	10.8595	10.0041	10.8636	8
53	9.1372	9.9958	9.1413	10.8586	10.0041	10.8627	7
54	9.1381	9.9958	9.1422	10.8577	10.0041	10.8618	6
55	9.1390	9.9958	9.1431	10.8568	10.0041	10.8609	5
56	9.1399	9.9958	9.1441	10.8558	10.0041	10.8600	4
57	9.1408	9.9958	9.1450	10.8549	10.0041	10.8591	3
58	9.1417	9.9957	9.1459	10.8540	10.0042	10.8582	2
59	9.1426	9.9957	9.1468	10.8531	10.0042	10.8573	1
60	9.1435	9.9957	9.1478	10.8521	10.0042	10.8564	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	11. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

97°. Degrees 82

8 Degrees. 171°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.1435	9.9957	9.1478	10.8521	10.0042	10.8564	60
1	9.1444	9.9957	9.1487	10.8512	10.0042	10.8555	59
2	9.1453	9.9957	9.1496	10.8503	10.0042	10.8546	58
3	9.1462	9.9956	9.1505	10.8494	10.0043	10.8537	57
4	9.1471	9.9956	9.1514	10.8485	10.0043	10.8528	56
5	9.1480	9.9956	9.1523	10.8476	10.0043	10.8519	55
6	9.1489	9.9956	9.1532	10.8467	10.0043	10.8510	54
7	9.1498	9.9956	9.1541	10.8458	10.0043	10.8501	53
8	9.1506	9.9956	9.1550	10.8449	10.0043	10.8493	52
9	9.1515	9.9955	9.1559	10.8440	10.0044	10.8484	51
10	9.1524	9.9955	9.1568	10.8431	10.0044	10.8475	50
11	9.1533	6.9955	9.1577	10.8422	10.0044	10.8466	49
12	9.1542	9.9955	9.1586	10.8413	10.0044	10.8457	48
13	9.1550	9.9955	9.1595	10.8404	10.0044	10.8449	47
14	9.1559	9.9955	9.1604	10.8395	10.0044	10.8440	46
15	9.1568	9.9954	9.1613	10.8386	10.0045	10.8431	45
16	9.1577	9.9954	9.1622	10.8377	10.0045	10.8423	44
17	9.1585	9.9954	9.1631	10.8368	10.0045	10.8414	43
18	9.1594	9.9954	9.1640	10.8359	10.0045	10.8405	42
19	9.1603	9.9954	9.1648	10.8351	10.0045	10.8396	41
20	9.1611	9.9953	9.1657	10.8342	10.0046	10.8388	40
21	9.1620	9.9953	9.1666	10.8333	10.0046	10.8379	39
22	9.1628	9.9953	9.1675	10.8324	10.0046	10.8371	38
23	9.1637	9.9953	9.1684	10.8315	10.0046	10.8362	37
24	9.1646	9.9953	9.1692	10.8307	10.0046	10.8354	36
25	9.1654	9.9952	9.1701	10.8298	10.0047	10.8345	35
26	9.1663	9.9952	9.1710	10.8289	10.0047	10.8336	34
27	9.1671	9.9952	9.1718	10.8281	10.0047	10.8328	33
28	9.1680	9.9952	9.1727	10.8272	10.0047	10.8319	32
29	9.1688	9.9952	9.1736	10.8263	10.0047	10.8311	31
30	9.1697	9.9952	9.1744	10.8255	10.0047	10.8302	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

98°. Degrees 81

Co-fines, Co-tangents, & Co-fecants.

8 Degrees. 171°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10.*Co-fec.* 0.*Co-ar.*	Min.
30	9.1697	9.9952	9.1744	10.8255	10.0047	10.8302	30
31	9.1705	9.9951	9.1753	10.8246	10.0048	10.8294	29
32	9.1713	9.9951	9.1762	10.8237	10.0048	10.8286	28
33	9.1722	9.9951	9.1770	10.8229	10.0048	10.8277	27
34	9.1730	9 9951	9.1779	10.8220	10.0048	10.8269	26
35	9.1739	9.9951	9.1787	10.8212	10.0048	10.8260	25
36	9.1747	9.9950	9.1796	10.8203	10.0049	10.8252	24
37	9.1755	9.9950	9.1805	10.8194	10.0049	10.8244	23
38	9.1764	9.9950	9.1813	10.8186	10.0049	10.8235	22
39	9.1772	9.9950	9.1822	10.8177	10.0049	10.8227	21
40	9.1780	9.9950	9.1830	10.8169	10.0049	10.8219	20
41	9.1789	9.9949	9.1839	10.8160	10 0050	10.8211	19
42	9.1797	9.9949	9.1847	10.8152	10.0050	10.8202	18
43	9.1805	9.9949	9.1855	10.8144	10.0050	10.8194	17
44	9.1813	9.9949	9.1864	10.8135	10.0050	10.8186	16
45	9.1821	9.9949	9.1872	10.8127	10.0050	10.8178	15
46	9.1830	9.9948	9.1881	10.8118	10.0051	10.8169	14
47	9.1838	9.9948	9.1889	10.8110	10.0051	10.8161	13
48	9.1846	9.9948	9.1897	10.8102	10.0051	10.8153	12
49	9.1854	9.9948	9.1906	10.8093	10.0051	10.8145	11
50	9.1862	9.9948	9.1914	10.8085	10.0051	10.8137	10
51	9.1870	9.9947	9.1922	10.8077	10.0052	10.8129	9
52	9.1879	9.9947	9 1931	10.8068	10.0052	10.8120	8
53	9.1887	9.9947	9.1939	10.8060	10.0052	10.8112	7
54	9.1895	9.9947	9.1947	10.8052	10.0052	10.8104	6
55	9.1903	9.9947	9.1956	10.8043	10.0052	10.8096	5
56	9.1911	9.9947	9.1964	10.8035	10.0053	10.8088	4
57	9.1919	9.9946	9.1972	10.8027	10.0053	10.8080	3
58	9.1927	9.9946	9.1980	10.8019	10.0053	10.8072	2
59	9.1935	9.9946	9.1988	10.8011	10.0053	10.8064	1
60	9.1943	9.9946	9.1997	10.8002	10.0053	10.8056	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent	10.*Co-fec.* 0. *Co-ar.*	Secant.	Min.

98°. Degrees 81.

9 Degrees. 170°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.1943	9.9946	9.1997	10.8002	10.0053	10.8056	60
1	9.1951	9.9946	9.2005	10.7994	10.0054	10.8048	59
2	9.1959	9.9945	9.2013	10.7986	10.0054	10.8040	58
3	9.1967	9.9945	9.2021	10.7978	10.0054	10.8032	57
4	9.1975	9.9945	9.2029	10.7970	10.0054	10.8024	56
5	9.1983	9.9945	9.2037	10.7962	10.0054	10.8016	55
6	9.1990	9.9944	9.2045	10.7954	10.0055	10.8009	54
7	9.1998	9.9944	9.2054	10.7946	10.0055	10.8001	53
8	9.2006	9.9944	9.2062	10.7937	10.0055	10.7993	52
9	9.2014	9.9944	9.2070	10.7929	10.0055	10.7985	51
10	9.2022	9.9944	9.2078	10.7921	10.0055	10.7977	50
11	9.2030	9.9943	9.2086	10.7913	10.0056	10.7969	49
12	9.2037	9.9943	9.2094	10.7905	10.0056	10.7962	48
13	9.2045	9.9943	9.2102	10.7897	10.0056	10.7954	47
14	9.2053	9.9943	9.2110	10.7889	10.0056	10.7946	46
15	9.2061	9.9943	9.2118	10.7881	10.0056	10.7938	45
16	9.2069	9.9942	9.2126	10.7873	10.0057	10.7930	44
17	9.2076	9.9942	9.2134	10.7865	10.0057	10.7923	43
18	9.2084	9.9942	9.2141	10.7858	10.0057	10.7915	42
19	9.2092	9.9942	9.2149	10.7850	10.0057	10.7907	41
20	9.2099	9.9942	9.2157	10.7842	10.0057	10.7900	40
21	9.2107	9.9941	9.2165	10.7834	10.0058	10.7892	39
22	9.2115	9.9941	9.2173	10.7826	10.0058	10.7884	38
23	9.2122	9.9941	9.2181	10.7818	10.0058	10.7877	37
24	9.2130	9.9941	9.2189	10.7810	10.0058	10.7869	36
25	9.2138	9.9941	9.2197	10.7802	10.0058	10.7861	35
26	9.2145	9.9940	9.2204	10.7795	10.0059	10.7854	34
27	9.2153	9.9940	9.2212	10.7787	10.0059	10.7846	33
28	9.2160	9.9940	9.2220	10.7779	10.0059	10.7839	32
29	9.2168	9.9940	9.2228	10.7771	10.0059	10.7831	31
30	9.2176	9.9940	9.2236	10.7763	10.0059	10.7823	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

99°. Degrees 80.

9 Degrees. 170°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.2176	9.9940	9.2236	10.7763	10.0059	10.7823	30
31	9.2183	9.9939	9.2243	10.7756	10.0060	10.7816	29
32	9.2191	9.9939	9.2251	10.7748	10.0060	10.7808	28
33	9.2198	9.9939	9.2259	10.7740	10.0060	10.7801	27
34	9.2206	9.9939	9.2267	10.7733	10.0060	10.7793	26
35	9.2213	9.9938	9.2274	10.7725	10.0061	10.7786	25
36	9.2221	9.9938	9.2282	10.7717	10.0061	10.7778	24
37	9.2228	9.9938	9.2290	10.7709	10.0061	10.7771	23
38	9.2236	9.9938	9.2297	10.7702	10.0061	10.7763	22
39	9.2243	9.9938	9.2305	10.7694	10.0061	10.7756	21
40	9.2250	9.9937	9.2313	10.7686	10.0062	10.7749	20
41	9.2258	9.9937	9.2320	10.7679	10.0062	10.7741	19
42	9.2265	9.9937	9.2328	10.7671	10.0062	10.7734	18
43	9.2273	9.9937	9.2335	10.7664	10.0062	10.7726	17
44	9.2280	9.9937	9.2343	10.7656	10.0062	10.7719	16
45	9.2287	9.9936	9.2351	10.7648	10.0063	10.7712	15
46	9.2295	9.9936	9.2358	10.7641	10.0063	10.7704	14
47	9.2302	9.9936	9.2366	10.7633	10.0063	10.7697	13
48	9.2309	9.9936	9.2373	10.7626	10.0063	10.7690	12
49	9.2317	9.9935	9.2381	10.7618	10.0064	10.7682	11
50	9.2324	9.9935	9.2388	10.7611	10.0064	10.7675	10
51	9.2331	9.9935	9.2396	10.7603	10.0064	10.7668	9
52	9.2338	9.9935	9.2403	10.7596	10.0064	10.7661	8
53	9.2346	9.9935	9.2411	10.7588	10.0064	10.7653	7
54	9.2353	9.9934	9.2418	10.7581	10.0065	10.7646	6
55	9.2360	9.9934	9.2426	10.7573	10.0065	10.7639	5
56	9.2367	9.9934	9.2433	10.7566	10.0065	10.7632	4
57	9.2375	9.9934	9.2440	10.7559	10.0065	10.7624	3
58	9.2382	9.9933	9.2448	10 7551	10.0066	10.7617	2
59	9.2389	9.9933	9.2455	10.7544	10.0066	10.7610	1
60	9.2396	9.9933	9.2463	10.7536	10.0066	10.7603	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

99°. Degrees 80.

10 Degrees. 169°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 0 *Co-ar.*	Min.
0	9.2396	9.9933	9.2463	10.7536	10.0066	10.7603	60
1	9.2403	9.9933	9.2470	10.7529	10.0066	10.7596	59
2	9.2411	9.9933	9.2477	10.7522	10.0066	10.7588	58
3	9.2418	9.9932	9.2485	10.7514	10.0067	10.7581	57
4	9.2425	9.9932	9.2492	10.7507	10.0067	10.7574	56
5	9.2432	9.9932	9.2499	10.7500	10.0067	10.7567	55
6	9.2439	9.9932	9.2507	10.7492	10.0067	10.7560	54
7	9.2446	9.9931	9.2514	10.7485	10.0068	10.7553	53
8	9.2453	9.9931	9.2521	10.7478	10.0068	10.7546	52
9	9.2460	9.9931	9.2529	10.7470	10.0068	10.7539	51
10	9.2467	9.9931	9.2536	10.7463	10.0068	10.7532	50
11	9.2474	9.9931	9.2543	10.7456	10.0068	10.7525	49
12	9.2481	9.9930	9.2551	10.7449	10.0069	10.7518	48
13	9.2488	9.9930	9.2558	10.7441	10.0069	10.7511	47
14	9.2495	9.9930	9.2565	10.7434	10.0069	10.7504	46
15	9.2502	9.9930	9.2572	10.7427	10.0069	10.7497	45
16	9.2509	9.9929	9.2579	10.7420	10.0070	10.7490	44
17	9.2516	9.9929	9.2587	10.7412	10.0070	10.7483	43
18	9.2523	9.9929	9.2594	10.7405	10.0070	10.7476	42
19	9.2530	9.9929	9.2601	10.7398	10.0070	10.7469	41
20	9.2537	9.9928	9.2608	10.7391	10.0071	10.7462	40
21	9.2544	9.9628	9.2615	10.7384	10.0071	10.7455	39
22	9.2551	9.9928	9.2622	10.7377	10.0071	10.7448	38
23	9.2558	9.9928	9.2630	10.7369	10.0071	10.7441	37
24	9.2565	9.9928	9.2637	10.7362	10.0071	10.7434	36
25	9.2572	9.9927	9.2644	10.7355	10.0072	10.7427	35
26	9.2578	9.9927	9.2651	10.7348	10.0072	10.7421	34
27	9.2585	9.9927	9.2658	10.7341	10.0072	10.7414	33
28	9.2592	9.9927	9.2665	10.7334	10.0072	10.7407	32
29	9.2599	9.9926	9.2672	10.7327	10.0073	10.7400	31
30	9.2606	9.9926	9.2679	10.7320	10.0073	10.7393	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

100°. Degrees 79.

10 Degrees 169°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.2606	9.9926	9.2679	10.7320	10.0073	10.7393	30
31	9.2613	9.9926	9.2686	10.7313	10.0073	10.7386	29
32	9.2619	9.9926	9.2693	10.7306	10.0073	10.7380	28
33	9.2626	9.9925	9.2700	10.7299	10.0074	10.7373	27
34	9.2633	9.9925	9.2707	10.7292	10.0074	10.7366	26
35	9.2640	9.9925	9.2714	10.7285	10.0074	10.7359	25
36	9.2647	9.9925	9.2721	10.7278	10.0074	10.7352	24
37	9.2653	9.9925	9.2728	10.7271	10.0074	10.7346	23
38	9.2660	9.9924	9.2735	10.7264	10.0075	10.7339	22
39	9.2667	9.9924	9.2742	10.7257	10.0075	10.7332	21
40	9.2673	9.9924	9.2749	10.7250	10.0075	10.7326	20
41	9.2680	9.9924	9.2756	10.7243	10.0075	10.7319	19
42	9.2687	9.9923	9.2763	10.7236	10.0076	10.7312	18
43	9.2694	9.9923	9.2770	10.7229	10.0076	10.7305	17
44	9.2700	9.9923	9.2777	10.7222	10.0076	10.7299	16
45	9.2707	9.9923	9.2784	10.7215	10.0076	10.7292	15
46	9.2714	9.9922	9.2791	10.7208	10.0077	10.7286	14
47	9.2720	9.9922	9.2798	10.7201	10.0077	10.7279	13
48	9.2727	9.9922	9.2804	10.7195	10.0077	10.7272	12
49	9.2733	9.9922	9.2811	10.7188	10.0077	10.7266	11
50	9.2740	9.9921	9.2818	10.7181	10.0078	10.7259	10
51	9.2747	9.9921	9.2825	10.7174	10.0078	10.7252	9
52	9.2753	9.9921	9.2832	10.7167	10.0078	10.7246	8
53	9.2760	9.9921	9.2839	10.7160	10.0078	10.7239	7
54	9.2766	9.9920	9.2845	10.7154	10.0079	10.7233	6
55	9.2773	9.9920	9.2852	10.7147	10.0079	10.7226	5
56	9.2779	9.9920	9.2859	10.7140	10.0079	10.7220	4
57	9.2786	9.9920	9.2866	10.7133	10.0079	10.7213	3
58	9.2792	9.9919	9.2873	10.7126	10.0080	10.7207	2
59	9.2799	9.9919	9.2879	10.7120	10.0080	10.7200	1
60	9.2805	9.9919	9.2886	10.7113	10.0080	10.7194	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

100°. Degrees 79.

11 Degrees 168°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.2805	9.9919	9.2886	10.7113	10.0080	10.7194	60
1	9.2812	9.9919	9.2892	10.7106	10.0080	10.7187	59
2	9.2818	9.9918	9.2899	10.7100	10.0081	10.7181	58
3	9.2825	9.9918	9.2906	10.7093	10.0081	10.7174	57
4	9.2831	9.9918	9.2913	10.7086	10.0081	10.7168	56
5	9.2838	9.9918	9.2920	10.7079	10.0081	10.7161	55
6	9.2844	9.9917	9.2926	10.7073	10.0082	10.7155	54
7	9.2851	9.9917	9.2933	10.7066	10.0082	10.7148	53
8	9.2857	9.9917	9.2940	10.7059	10.0082	10.7142	52
9	9.2864	9.9917	9.2946	10.7053	10.0082	10.7135	51
10	9.2870	9.9916	9.2953	10.7046	10.0083	10.7129	50
11	9.2876	9.9916	9.2960	10.7039	10.0083	10.7123	49
12	9.2883	9.9916	9.2966	10.7033	10.0083	10.7116	48
13	9.2889	9.9916	9.2973	10.7026	10.0083	10.7110	47
14	9.2896	9.9915	9.2980	10.7019	10.0084	10.7104	46
15	9.2902	9.9915	9.2986	10.7013	10.0084	10.7097	45
16	9.2908	9.9915	9.2993	10.7006	10.0084	10.7091	44
17	9.2915	9.9915	9.2999	10.7000	10.0084	10.7084	43
18	9.2921	9.9914	9.3006	10.6993	10.0085	10.7078	42
19	9.2927	9.9914	9.3012	10.6987	10.0085	10.7072	41
20	9.2933	9.9914	9.3019	10.6980	10.0085	10.7066	40
21	9.2940	9.9914	9.3026	10.6973	10.0085	10.7059	39
22	9.2946	9.9913	9.3032	16.6967	10.0086	10.7053	38
23	9.2952	9.9913	9.3039	10.6960	10.0086	10.7047	37
24	9.2959	9.9913	9.3054	10.6954	10.0086	10.7040	36
25	9.2965	9.9913	9.3052	10.6947	10.0086	10.7034	35
26	9.2971	9.9912	9.3058	10.6941	10.0087	10.7028	34
27	9.2977	9.9912	9.3065	10.6934	10.0087	10.7022	33
28	9.2984	9.9912	9.3071	10.6928	10.0087	10.7015	32
29	9.2990	9.9912	9.3078	10.6921	10.0087	10.7009	31
30	9.2996	9.9911	9.3084	0.6915	10.0088	10.7003	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co fec.* 0. *Co-ar.*	Secant	Min.

101°. Degrees 78.

11 Degrees. 168°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.2996	9.9911	9.3084	10.6915	10.0088	10.7003	30
31	9.3002	9.9911	9.3091	10.6908	10.0088	10.6997	29
32	9.3008	9.9911	9.3097	10.6902	10.0088	10.6991	28
33	9.3015	9.9911	9.3103	10.6896	10.0088	10.6984	27
34	9.3021	9.9910	9.3110	10.6889	10.0089	10.6978	26
35	9.3027	9.9910	9.3116	10.6883	10.0089	10.6972	25
36	9.3033	9.9910	9.3123	10.6876	10.0089	10.6966	24
37	9.3039	9.9910	9.3129	10.6870	10.0089	10.6960	23
38	9.3045	9.9909	9.3136	10.6863	10.0090	10.6954	22
39	9.3052	9.9909	9.3142	10.6857	10.0090	10.6947	21
40	9.3058	9.9909	9.3148	10.6851	10.0090	10.6941	20
41	9.3064	9.9909	9.3155	10.6844	10.0090	10.6935	19
42	9.3070	9.9908	9.3161	10.6838	10.0091	10.6929	18
43	9.3076	9.9908	9.3167	10.6832	10.0091	10.6923	17
44	9.3082	9.9908	9.3174	10.6825	10.0091	10.6917	16
45	9.3088	9.9908	9.3180	10.6819	10.0091	10.6911	15
46	9.3094	9.9907	9.3186	10.6813	10.0092	10.6905	14
47	9.3100	9.9907	9.3193	10.6806	10.0092	10.6899	13
48	9.3106	9.9907	9.3199	10.6800	10.0092	10.6893	12
49	9.3112	9.9906	9.3205	10.6794	10.0093	10.6887	11
50	9.3118	9.9906	9.3212	10.6787	10.0093	10.6881	10
51	9.3124	9.9906	9.3218	10.6781	10.0093	10.6875	9
52	9.3130	9.9906	9.3224	10.6775	10.0093	10.6869	8
53	9.3136	9.9905	9.3231	10.6768	10.0094	16.6863	7
54	9.3142	9.9905	9.3237	10.6762	10.0094	10.6857	6
55	9.3148	9.9905	9.3243	10.6756	10.0094	10.6851	5
56	9.3154	9.9905	9.3249	10.6750	10.0094	10.6845	4
57	9.3160	9.9904	9.3256	10.6743	10.0095	10.6839	3
58	9.3166	9.9904	9.3262	10.6737	10.0095	10.6833	2
59	9.3172	9.9904	9.3268	10.6731	10.0095	10.6827	1
60	9.3178	9.9904	9.3274	10.6725	10.0095	10.6821	0
Min.	*Co-line.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

101°. Degrees 78.

12 Degrees. 167°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.3178	9.9904	9.3274	10.6725	10.0095	10.6821	60
1	9.3184	9.9903	9.3280	10.6719	10.0096	10.6815	59
2	9.3190	9.9903	9.3287	10.6712	10.0096	10.6809	58
3	9.3196	9.9903	9.3293	10.6706	10.0096	10.6803	57
4	9.3202	9.9902	9.3299	10.6700	10.0097	10.6797	56
5	9.3208	9.9902	9.3305	10.6694	10.0097	10.6791	55
6	9.3214	9.9902	9.3311	10.6688	10.0097	10.6785	54
7	9.3220	9.9902	9.3318	10.6681	10.0097	10.6779	53
8	9.3226	9.9901	9.3324	10.6675	10.0098	10.6773	52
9	9.3231	9.9901	9.3330	10.6669	10.0098	10.6768	51
10	9.3237	9.9901	9.3336	10.6663	10.0098	10.6762	50
11	9.3243	9.9901	9.3342	10.6657	10.0098	10.6756	49
12	9.3249	9.9900	9.3348	10.6651	10.0099	10.6750	48
13	9.3255	9.9900	9.3354	10.6645	10.0099	10.6744	47
14	9.3261	9.9900	9.3360	10.6639	10.0099	10.6738	46
15	9.3267	9.9899	9.3367	10.6632	10.0100	10.6733	45
16	9.3272	9.9899	9.3373	10.6626	10.0100	10.6727	44
17	9.3278	9.9899	9.3379	10.6620	10.0100	10.6721	43
18	9.3284	9.9899	9.3385	10.6614	10.0100	10.6715	42
19	9.3290	9.9898	9.3391	10.6608	10.0101	10.6709	41
20	9.3295	9.9898	9.3397	10.6602	10.0101	10.6704	40
21	9.3301	9.9898	9.3403	10.6596	10.0101	10.6698	39
22	9.3307	9.9898	9.3409	10.6590	10.0101	10.6692	38
23	9.3313	9.9897	9.3415	10.6584	10.0102	10.6686	37
24	9.3319	9.9897	9.3421	10.6578	10.0102	10.6680	36
25	9.3324	9.9897	9.3427	10.6572	10.0102	10.6675	35
26	9.3330	9.9896	9.3433	10.6566	10.0103	10.6669	34
27	9.3336	9.9896	9.3439	10.6560	10.0103	10.6663	33
28	9.3341	9.9896	9.3445	10.6554	10.0103	10.6658	32
29	9.3347	9.9896	9.3451	10.6548	10.0103	10.6652	31
30	9.3353	9.9895	9.3457	10.6542	10.0104	10.6646	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

102°. Degrees 77.

12 Degrees. 167°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9 3353	9.9895	9.3457	10.6542	10.0104	10.6646	30
31	9 3359	9.9895	9.3463	10.6536	10.0104	10.6640	29
32	9.3364	9.9895	9.3469	10.6530	10.0104	10.6635	28
33	9.3370	9.9894	9.3475	10.6524	10.0105	10.6629	27
34	9.3376	9.9894	9.3481	10.6518	10.0105	10.6623	26
35	9.3381	9.9894	9.3487	10.6512	10.0105	10.6618	25
36	9.3387	9.9894	9.3493	10.6506	10.0105	10.6612	24
37	9.3393	9.9893	9.3499	10.6500	10.0106	10.6606	23
38	9.3398	9.9893	9.3505	10.6494	10.0106	10.6601	22
39	9.3404	9.9893	9.3511	10 6488	10.0106	10 6595	21
40	9.3409	9.9893	9.3516	10.6483	10.0107	10 6590	20
41	9 3415	9.9892	9.3522	10.6477	10.0107	10.6584	19
42	9.3421	9.9892	9.3528	10.6471	10.0107	10.6578	18
43	9.3426	9.9892	9.3534	10.6465	10.0107	10.6573	17
44	9.3432	9.9891	9.3540	10.6459	10.0108	10.6567	16
45	9.3437	9.9891	9.3546	10.6453	10.0108	10.6562	15
46	9.3443	9.9891	9.3552	10.6447	10.0108	10.6556	14
47	9.3449	9.9891	9.3558	10.6441	10.0109	10.6550	13
48	9.3454	9.9890	9.3563	10.6436	10.0109	10.6545	12
49	9.3460	9.9890	9.3569	10.6430	10.0109	10.6539	11
50	9.3465	9.9890	9.3575	10.6424	10.0109	10.6534	10
51	9.3471	9.9889	9.3581	10.6418	10.0110	10.6528	9
52	9.3476	9.9889	9.3587	10.6412	10.0110	10.6523	8
53	9.3482	9.9889	9.3593	10.6406	10.0110	10.6517	7
54	9.3487	9.9888	9.3598	10.6401	10.0111	10.6512	6
55	9.3493	9.9888	9.3604	10.6395	10.0111	10.6506	5
56	9.3498	9.9888	9.3610	10.6389	10.0111	10.6501	4
57	9 3504	9.9888	9.3616	10.6383	10.0111	10.6495	3
58	9.3509	9.9887	9.3622	10.6377	10.0112	10.6490	2
59	9.3515	9.9887	9.3627	10.6372	10.0112	10.6484	1
60	9.3520	9.9887	9.3633	10.6366	10.0112	10.6479	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

102°. Degrees 77.

13 Degrees. 166°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.3520	9.9887	9.3633	10.6366	10.0112	10.6479	60
1	9.3526	9.9886	9.3639	10.6360	10.0113	10.6473	59
2	9.3531	9.9886	9.3645	10.6354	10.0113	10.6468	58
3	9.3537	9.9886	9.3650	10.6349	10.0113	10.6462	57
4	9.3542	9.9886	9.3656	10.6343	10.0113	10.6457	56
5	9.3548	9.9885	9.3662	10.6337	10.0114	10.6451	55
6	9.3553	9.9885	9.3668	10.6331	10.0114	10.6446	54
7	9.3559	9.9885	9.3673	10.6326	10.0114	10.6440	53
8	9.3564	9 9884	9.3679	10.6320	10.0115	10.6435	52
9	9.3569	9.9884	9.3685	10.6314	10.0115	10.6430	51
10	9.3575	9.9884	9.3690	10 6309	10.0115	10.6424	50
11	9.3580	9.9884	9.3696	10.6303	10.0115	10.6419	49
12	9.3586	9.9883	9.3702	10.6297	10.0116	10.6413	48
13	9.3591	9.9883	9.3707	10.6292	10.0116	10.6408	47
14	9.3596	9.9883	9.3713	10.6286	10.0116	10.6403	46
15	9.3602	9.9882	9.3719	10.6280	10.0117	10.6397	45
16	9.3607	9.9882	9.3724	10.6275	10.0117	10.6392	44
17	9.3612	9.9882	9.3730	10.6269	10.0117	10.6387	43
18	9.3618	9.9881	9.3736	10.6263	10.0118	10.6381	42
19	9.3623	9.9881	9.3741	10.6258	10.0118	10.6376	41
20	9.3628	9.9881	9.3747	10.6252	10.0118	10.6371	40
21	9.3634	9.9881	9.3753	10.6246	10.0118	10.6365	39
22	9.3639	9.9880	9.3758	10.6241	10.0119	10.6360	38
23	9.3644	9.9880	9.3764	10.6235	10.0119	10.6355	37
24	9.3650	9.9880	9.3770	10.6229	10.0119	10.6349	36
25	9.3655	9.9879	9.3775	10.6224	10.0120	10.6344	35
26	9.3660	9.9879	9.3781	10.6218	10.0120	10.6339	34
27	9.3666	9.9879	9.3786	10.6213	10.0120	10.6333	33
28	9.3671	9.9878	9.3792	10.6207	10.0121	10.6328	32
29	9.3676	9.9878	9.3797	10.6202	10.0121	10.6323	31
30	9.3681	9.9878	9.3803	10.6196	10.0121	10.6318	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

103°. Degrees 76.

13° Degrees. 166°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 0. *Co-ar.*	Min.
30	9.3681	9.9878	9.3803	10.6196	10.0121	10.6318	30
31	9.3687	9.9878	9.3809	10.6190	10.0121	10.6312	29
32	9.3692	9.9877	9.3814	10.6185	10.0122	10.6307	28
33	9.3697	9.9877	9.3820	10.6179	10.0122	10.6302	27
34	9.3702	9.9877	9.3825	10.6174	10.0122	10.6297	26
35	9.3708	9.9876	9.3831	10.6168	10.0123	10.6291	25
36	9.3713	9.9876	9.3836	10.6163	10.0123	10.6286	24
37	9.3718	9.9876	9.3842	10.6157	10.0123	10.6281	23
38	9.3723	9.9875	9.3847	10.6152	10.0124	10.6276	22
39	9.3728	9.9875	9.3853	10.6146	10.0124	10.6271	21
40	9.3734	9.9875	9.3858	10.6141	10.0124	10.6265	20
41	9.3739	9.9874	9.3864	10.6135	10.0125	10.6260	19
42	9.3744	9.9874	9.3869	10.6130	10.0125	10.6255	18
43	9.3749	9.9874	9.3875	10.6124	10.0125	10.6250	17
44	9.3754	9.9874	9.3880	10.6119	10.0125	10.6245	16
45	9.3760	9.9873	9.3886	10.6113	10.0126	10.6239	15
46	9.3765	9.9873	9.3891	10.6108	10.0126	10.6234	14
47	9.3770	9.9873	9.3897	10.6102	10.0126	10.6229	13
48	9.3775	9.9872	9.3902	10.6097	10.0127	10.6224	12
49	9.3780	9.9872	9.3908	10.6091	10.0127	10.6219	11
50	9.3785	9.9872	0.3913	10.6086	10.0127	10.6214	10
51	9.3790	9.9871	9.3919	10.6080	10.0128	10.6209	9
52	9.3796	9.9871	9.3924	10.6075	10.0128	10.6203	8
53	9.3801	9.9871	9.3929	10.6070	10.0128	10.6198	7
54	9.3806	9.9870	9.3935	10.6064	10.0129	10.6193	6
55	9.3811	9.9870	9.3940	10.6059	10.0129	10.6188	5
56	9.3816	9.9870	9.3946	10.6053	10.0129	10.6183	4
57	9.3821	9.9869	9.3951	10.6048	10.0130	10.6178	3
58	9.3826	9.9869	9.3956	10.6043	10.0130	10.6173	2
59	9.3831	9.9869	9.3962	10.6037	10.0130	10.6168	1
60	9.3836	9.9869	9.3967	10.6032	10.0130	10.6163	0
Min.	*Co-sine.*	Sine,	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

193°. Degrees 76.

14 Degrees. 165°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.3836	9.9869	9.3967	10.6032	10.0130	10.6163	60
1	9.3841	9.9868	9.3973	10.6026	10.0131	10.6158	59
2	9.3846	9.9868	9.3978	10.6021	10.0131	10.6153	58
3	9.3851	9.9868	9.3983	10.6016	10.0131	10.6148	57
4	9.3856	9.9867	9.3989	10.6010	10.0132	10.6143	56
5	9.3862	9.9867	9.3994	10.6005	10.0132	10.6137	55
6	9.3867	9.9867	9.3999	10.6000	10.0132	10.6132	54
7	9.3872	9.9866	9.4005	10.5994	10.0133	10.6127	53
8	9.3877	9.9866	9.4010	10.5989	10.0133	10.6122	52
9	9.3882	9.9866	9.4015	10.5984	10.0133	10.6117	51
10	9.3887	9.9865	9.4021	10.5978	10.0134	10.6112	50
11	9.3892	9.9865	9.4026	10.5973	10.0134	10.6107	49
12	9.3897	9.9865	9.4031	10.5968	10.0134	10.6102	48
13	9.3902	9.9864	9.4037	10.5962	10.0135	10.6097	47
14	9.3907	9.9864	9.4042	10.5957	10.0135	10.6092	46
15	9.3912	9.9864	9.4047	10.5952	10.0135	10.6087	45
16	9.3917	9.9863	9.4053	10.5946	10.0136	10.6082	44
17	9.3921	9.9863	9.4058	10.5941	10.0136	10.6078	43
18	9.3926	9.9863	9.4063	10.5936	10.0136	10.6073	42
19	9.3931	9.9862	9.4068	10.5931	10.0137	10.6068	41
20	9.3936	9.9862	9.4074	10.5925	10.0137	10.6063	40
21	9.3941	9.9862	9.4079	10.5920	10.0137	10.6058	39
22	9.3946	9.9862	9.4084	10.5915	10.0137	10.6053	38
23	9.3951	9.9861	9.4089	10.5910	10.0138	10.6048	37
24	9.3956	9.9861	9.4095	10.5904	10.0138	10.6043	36
25	9.3961	9.9861	9.4100	10.5899	10.0138	10.6038	35
26	9.3966	9.9860	9.4105	10.5894	10.0139	10.6033	34
27	9.3971	9.9860	9.4110	10.5889	10.0139	10.6028	33
28	9.3976	9.9860	9.4116	10.5883	10.0139	10.6023	32
29	9.3981	9.9859	9.4121	10.5878	10.0140	10.6018	31
30	9.3986	9.9859	9.4126	10.5873	10.0140	10.6014	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

104°. Degrees. 75

14 Degrees, 165°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.3986	9.9859	9.4126	10.5873	10.0140	10.6014	30
31	9.3990	9.9859	9.4131	10.5868	10.0140	10.6009	29
32	9.3995	9.9858	9.4136	10.5863	10.0141	10.6004	28
33	9.4000	9.9858	9.4142	10.5857	10.0141	10.5999	27
34	9.4005	9.9858	9.4147	10.5852	10.0141	10.5994	26
35	9.4010	9.9857	9.4152	10.5847	10.0142	10.5989	25
36	9.4015	9.9857	9.4157	10.5842	10.0142	10.5984	24
37	9.4020	9.9857	9.4162	10.5837	10.0142	10.5979	23
38	9.4024	9.9856	9.4168	10.5831	10.0143	10.5975	22
39	9.4029	9.9856	9.4173	10.5826	10.0143	10.5970	21
40	9.4034	9.9856	9.4178	10.5821	10.0143	10.5965	20
41	9.4039	9.9855	9.4183	10.5816	10.0144	10.5960	19
42	9.4044	9.9855	9.4188	10.5811	10.0144	10.5955	18
43	9.4049	9.9855	9.4193	10.5806	10.0144	10.5950	17
44	9.4053	9.9854	9.4199	10.5800	10.0145	10.5946	16
45	9.4058	9.9854	9.4204	10.5795	10.0145	10.5941	15
46	9.4063	9.9854	9.4209	10.5790	10.0145	10.5936	14
47	9.4068	9.9853	9.4214	10.5785	10.0146	10.5931	13
48	9.4072	9.9853	9.4219	10.5780	10.0146	10.5927	12
49	9.4077	9.9853	9.4224	10.5775	10.0146	10.5922	11
50	9.4082	9.9852	9.4229	10.5770	10.0147	10.5917	10
51	9.4087	9.9852	9.4234	10.5765	10.0147	10.5912	9
52	9.4092	9.9852	9.4239	10.5760	10.0147	10.5907	8
53	9.4096	9.9851	9.4245	10.5754	10.0148	10.5903	7
54	9.4101	9.9851	9.4250	10.5749	10.0148	10.5898	6
55	9.4106	9.9851	9.4255	10.5744	10.0148	10.5893	5
56	9.4111	9.9850	9.4260	10.5739	10.0149	10.5888	4
57	9.4115	9.9850	9.4265	10.5734	10.0149	10.5884	3
58	9.4120	9.9850	9.4270	10.5729	10.0149	10.5879	2
59	9.4125	9.9849	9.4275	10.5724	10.0150	10.5874	1
60	9.4129	9.9849	9.4280	10.5719	10.0150	10.5870	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

104°. Degrees 75.

15 Degrees. 164°

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-fec.* 2 *Co-ar.*	Min.
0	9.4129	9.9849	9.4280	10.5719	10.0150	10.5870	60
1	9.4134	9.9849	9.4285	10.5714	10.0150	10.5865	59
2	9.4139	9.9848	9.4290	10.5709	10.0151	10.5860	58
3	9.4144	9.9848	9.4295	10.5704	10.0151	10.5855	57
4	9.4148	9.9848	9.4300	10.5699	10.0151	10.5851	56
5	9.4153	9.9847	9.4305	10.5694	10.0152	10.5846	55
6	9.4158	9.9847	9.4310	10.5689	10.0152	10.5841	54
7	9.4162	9.9847	9.4315	10.5684	10.0152	10.5837	53
8	9.4167	9.9846	9.4320	10.5679	10.0153	10.5832	52
9	9.4172	9.9846	9.4325	10.5674	10.0153	10.5827	51
10	9.4176	9.9846	9.4330	10.5669	10.0153	10.5823	50
11	9.4181	9.9845	9.4335	10.5664	10.0154	10.5818	49
12	9.4186	9.9845	9.4340	10.5659	10.0154	10.5813	48
13	9.4190	9.9845	9.4345	10.5654	10.0155	10.5809	47
14	9.4195	9.9844	9.4350	10.5649	10.0155	10.5804	46
15	9.4200	9.9844	9.4355	10.5644	10.0155	10.5799	45
16	9.4204	9.9843	9.4360	10.5639	10.0156	10.5795	44
17	9.4209	9.9843	9.4365	10.5634	10.0156	10.5790	43
18	9.4213	9.9843	9.4370	10.5629	10.0156	10.5786	42
19	9.4218	9.9842	9.4375	10.5624	10.0157	10.5781	41
20	9.4223	9.9842	9.4380	10.5619	10.0157	10.5776	40
21	9.4227	9.9842	9.2385	10.5614	10.0157	10.5772	39
22	9.4232	9.9841	9.4390	10.5609	10.0158	10.5767	38
23	9.4236	9.9841	9.4395	10.5604	10.0158	10.5763	37
24	9.4241	9.9841	9.4400	10.5599	10.0158	10.5758	36
25	9.4246	9.9840	9.4405	10.5594	10.0159	10.5753	35
26	9.4250	9.9840	9.4410	10.5589	10.0159	10.5749	34
27	9.4255	9.9840	9.4415	10.5584	10.0159	10.5744	33
28	9.4259	9.9839	9.4420	10.5579	10.0160	10.5740	32
29	9.4264	9.9839	9.4424	10.5575	10.0160	10.5735	31
30	9.4268	9.9839	9.4429	10.5570	10.0160	10.5731	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

105°. Degrees 74

Co-sines, Co-tangents, & Co-secants.

15 Degrees. 164.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 0. Co-ar.	Min.
30	9.4268	9.9839	9.4429	10.5570	10.0160	10.5731	30
31	9.4273	9.9838	9.4434	10.5565	10.0161	10.5726	29
32	9.4278	9.9838	9.4439	10.5560	10.0161	10.5721	28
33	9.4282	9.9838	9.4444	10.5555	10.0161	10.5717	27
34	9.4287	9.9837	9.4449	10.5550	10.0162	10.5712	26
35	9.4291	9.9837	9.4454	10.5545	10.0162	10.5708	25
36	9.4296	9.9837	9.4459	10.5540	10.0163	10.5703	24
37	9.4300	9.9836	9.4464	10.5535	10.0163	10.5699	23
38	9.4305	9.9836	9.4468	10.5531	10.0163	10.5694	22
39	9.4309	9.9835	9.4473	10.5526	10.0164	10.5690	21
40	9.4314	9.9835	9.4478	10.5521	10.0164	10.5685	20
41	9.4318	9.9835	9.4483	10.5516	10.0164	10.5681	19
42	9.4323	9.9834	9.4488	10.5511	10.0165	10.5676	18
43	9.4327	9.9834	9.4493	10.5506	10.0165	10.5672	17
44	9.4332	9.9834	9.4498	10.5501	10.0165	10.5667	16
45	9.4336	9.9833	9.4502	10.5497	10.0166	10.5663	15
46	9.3341	9.9833	9.4507	10.5492	10.0166	10.5658	14
47	9.4345	9.9833	9.4512	10.5487	10.0166	10.5654	13
48	9.4350	9.9832	9.4517	10.5482	10.0167	10.5649	12
49	9.4354	9.9832	9.4522	10.5477	10.0167	10.5645	11
50	9.4359	9.9832	9.4527	10.5472	10.0167	10.5640	10
51	9.4363	9.9831	9.4531	10.5468	10.0168	10.4636	9
52	9.4367	9.9831	9.4536	10.5463	10.0168	10.5632	8
53	9.4372	9.9830	9.4541	10.5458	10.0169	10.5627	7
54	9.4376	9.9830	9.4546	10.5453	10.0169	10.5623	6
55	9.4381	9.9830	9.4551	10.5448	10.0169	10.5618	5
56	9.4385	9.9829	9.4555	10.5444	10.0170	10.5614	4
57	9.4390	9.9829	9.4560	10.5439	10.0170	10.5609	3
58	9.4394	9.9829	9.4565	10.5434	10.0170	10.5605	2
59	9.4398	9.9828	9.4570	10.5429	10.0171	10.5601	1
60	9.4403	9.9828	9.4574	10.5425	10.0171	10.5596	0
Min.	Co-sine.	Sine.	Co tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

105. Degrees 74

16 Degrees 163°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* o. *Co-ar.*	Min.
0	9.4403	9.9828	9.4574	10.5425	10.0171	10.5596	60
1	9.4407	9.9828	9.4579	10.5420	10.0171	10.5592	59
2	9.4412	9.9827	9.4584	10.5415	10.0172	10.5587	58
3	9.4416	9.9827	9.4589	10.5410	10.0172	10.5583	57
4	9.4420	9.9826	9.4594	10.5406	10.0173	10.5579	56
5	9.4425	9.9826	9.4598	10.5401	10.0173	10.5574	55
6	9.4429	9.9826	9.4603	10.5396	10.0173	10.5570	54
7	9.4434	9.9825	9.4608	10.5391	10.0174	10.5565	53
8	9.4438	9.9825	9.4612	10.5387	10.0174	10.5561	52
9	9.4442	9.9825	9.4617	10.5382	10.0174	10.5557	51
10	9.4447	9.9824	9.4622	10.5377	10.0175	10.5552	50
11	9.4451	9.9824	9.4627	10.5372	10.0175	10.5548	49
12	9.4455	9.9824	9.4631	10.5368	10.0175	10.5544	48
13	9.4460	9.9823	9.4636	10.5363	10.0176	10.5539	47
14	9.4464	9.9823	9.4641	10.5358	10.0176	10.5535	46
15	9.4468	9.9822	9.4645	10.5354	10.0177	10.5531	45
16	9.4473	9.9822	9.4650	10.5349	10.0177	10.5526	44
17	9.4477	9.9822	9.4653	10.5344	10.0177	10.5522	43
18	9.4481	9.9821	9.4660	10.5339	10.0178	10.5518	42
19	9.4486	9.9821	9.4664	10.5335	10.0178	10.5513	41
20	9.4490	9.9821	9.4669	10.5330	10.0178	10.5509	40
21	9.4494	9.9820	9.4674	10.5325	10.0179	10.5505	39
22	9.4499	9.9820	9.4678	10.5321	10.0179	10.5500	38
23	9.4503	9.9819	9.4683	10.5316	10.0180	10.5496	37
24	9.4507	9.9819	9.4688	10.5311	10.0180	10.5492	36
25	9.4512	9.9819	9.4692	10.5307	10.0180	10.5487	35
26	9.4516	9.9818	9.4697	10.5302	10.0181	10.5483	34
27	9.4520	9.9818	9.4702	10.5297	10.0181	10.5479	33
28	9.4524	9.9818	9.4706	10.5293	10.0181	10.5475	32
29	9.4529	9.9817	9.4711	10.5288	10.0182	10.5470	31
30	9.4533	9.9817	9.4716	10.5283	10.0182	10.5466	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* o. *Co-ar.*	Secant.	Min.

196°. Degrees 73

Co-fines, Co-tangents, & Co-fecants.

16 Degrees 163°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.4533	9.9817	9.4716	10.5283	10.0182	10.5466	30
31	9.4537	9.9817	9.4720	10.5279	10.0183	10.5462	29
32	9.4541	9.9816	9.4725	10.5274	10.0183	10.5458	28
33	9.4546	9.9816	9.4729	10.5270	10.0183	10.5453	27
34	9.4550	9.9815	9.4734	10.5265	10.0184	10.5449	26
35	9.4554	9.9815	9.4739	10.5260	10.0184	10.5445	25
36	9.4558	9.9815	9.4743	10.5256	10.0184	10.5441	24
37	9.4563	9.9814	9.4748	10.5251	10.0185	10.5436	23
38	9.4567	9.9814	9.4753	10.5246	10.0185	10.5432	22
39	9.4571	9.9813	9.4757	10.5242	10.0186	10.5428	21
40	9.4575	9.9813	9.4762	10.5237	10.0186	10.5424	20
41	9.4580	9.9813	9.4766	10.5233	10.0186	10.5419	19
42	9.4584	9.9812	9.4771	10.5228	10.0187	10.5415	18
43	9.4588	9.9812	9.4776	10.5223	10.0187	10.5411	17
44	9.4593	9.9812	9.4780	10.5219	10.0187	10.5407	16
45	9.4596	9.9811	9.4785	10.5214	10.0188	10.5403	15
46	9.4601	9.9811	9.4789	10.5210	10.0188	10.5398	14
47	9.4605	9.9810	9.4794	10.5205	10.0189	10.5394	13
48	9.4609	9.9810	9.4798	10.5201	10.0189	10.5390	12
49	9.4613	9.9810	9.4803	10.5196	10.0189	10.5386	11
50	9.4617	9.9809	9.4808	10.5191	10.0190	10.5382	10
51	9.4621	9.9809	9.4812	10.5187	10.0190	10.5378	9
52	9.4626	9.9809	9.4817	10.5182	10.0190	10.5373	8
53	9.4630	9.9808	9.4821	10.5178	10.0191	10.5369	7
54	9.4634	9.9808	9.4826	10.5173	10.0191	10.5365	6
55	9.4638	9.9807	9.4830	10.5169	10.0192	10.5361	5
56	9.4642	9.9807	9.4835	10.5164	10.0192	10.5357	4
57	9.4646	9.9807	9.4839	10.5160	10.0192	10.5353	3
58	9.4651	9.9806	9.4844	10.5155	10.0193	10.5348	2
59	9.4655	9.9806	9.4848	10.5151	10.0193	10.5344	1
60	9.4659	9.9805	9.4853	10.5146	10.0194	10.5340	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

106°. Degrees 73

17 Degrees. 162°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 9 *Co-ar.*	Min.
0	9.4659	9.9805	9.4853	10.5146	10.0194	10.5340	60
1	9.4663	9.9805	9.4857	10.5142	10.0194	10.5336	59
2	9.4667	9.9805	9.4862	10.5137	10.0194	10.5332	58
3	9.4671	9.9804	9.4866	10.5133	10.0195	10.5328	57
4	9.4675	9.9804	9.4871	10.5128	10.0195	10.5324	56
5	9.4679	9.9804	9.4875	10.5124	10.0195	10.5320	55
6	9.4684	9.9803	9.4880	10.5119	10.0196	10.5315	54
7	9.4688	9.9803	9.4884	10.5115	10.0196	10.5311	53
8	9.4692	9.9802	9.4889	10.5110	10.0197	10.5307	52
9	9.4696	9.9802	9.4893	10.5106	10.0197	10.5303	51
10	9.4700	9.9802	9.4898	10.5101	10.0197	10.5299	50
11	9.4704	9.9801	9.4902	10.5097	10.0198	10.5295	49
12	9.4708	9.9801	9.4907	10.5092	10.0198	10.5291	48
13	9.4712	9.9800	9.4911	10.5088	10.0199	10.5287	47
14	9.4716	9.9800	9.4916	10.5083	10.0199	10.5283	46
15	9.4720	9.9800	9.4920	10.5079	10.0199	10.5279	45
16	9.4724	9.9799	9.4925	10.5074	10.0200	10.5275	44
17	9.4728	9.9799	9.4929	10.5070	10.0200	10.5271	43
18	9.4733	9.9798	9.4934	10.5065	10.0201	10.5266	42
19	9.4737	9.9798	9.4938	10.5061	10.0201	10.5262	41
20	9.4741	9.9798	9.4942	10.5057	10.0201	10.5258	40
21	9.4745	9.9797	9.4947	10.5052	10.0202	10.5254	39
22	9.4749	9.9797	9.4951	10.5048	10.0202	10.5250	38
23	9.4753	9.9796	9.4956	10.5043	10.0203	10.5246	37
24	9.4757	9.9796	9.4960	10.5039	10.0203	10.5242	36
25	9.4761	9.9796	9.4965	10.5034	10.0203	10.5238	35
26	9.4765	9.9795	9.4969	10.5030	10.0204	10.5234	34
27	9.4769	9.9795	9.4973	10.5026	10.0204	10.5230	33
28	9.4773	9.9794	9.4978	10.5021	10.0205	10.5226	32
29	9.4777	9.9794	9.4982	10.5017	10.0205	10.5222	31
30	9.4781	9.9794	9.4987	10.5012	10.0205	10.5218	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10 *Co-sec.* 9. *Co-ar.*	Secant.	Min.

107°. Degrees 72

17 Degrees. 162°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.4781	9.9794	9.4987	10.5012	10.0205	10.5218	30
31	9.4785	9.9793	9.4991	10.5008	10.0206	10.5214	29
32	9.4789	9.9793	9.4996	10.5003	10.0206	10.5210	28
33	9.4793	9.9793	9.5000	10.4999	10.0207	10.5206	27
34	9.4797	9.9792	9.5004	10.4995	10.0207	10.5202	26
35	9.4801	9.9792	9.5009	10.4990	10.0207	10.5198	25
36	9.4805	9.9791	9.5013	10.4986	10.0208	10.5194	24
37	9.4809	9.9791	9.5017	10.4982	10.0208	10.5190	23
38	9.4813	9.9791	9.5022	10.4977	10.0209	10.5186	22
39	9.4817	9.9790	9.5026	10.4973	10.0209	10.5182	21
40	9.4821	9.9790	9.5031	10.4968	10.0209	10.5178	20
41	9.4825	9.9789	9.5035	10.4964	10.0210	10.5174	19
42	9.4829	9.9789	9.5039	10.4960	10.0210	10.5170	18
43	9.4833	9.9788	9.5044	10.4955	10.0211	10.5166	17
44	9.4837	9.9788	9.5048	10.4951	10.0211	10.5162	16
45	9.4841	9.9788	9.5052	10.4947	10.0211	10.5158	15
46	9.4845	9.9787	9.5057	10.4942	10.0212	10.5154	14
47	9.4848	9.9787	9.5061	10.4938	10.0212	10.5151	13
48	9.4852	9.9786	9.5065	10.4934	10.0213	10.5147	12
49	9.4856	9.9786	9.5070	10.4929	10.0213	10.5143	11
50	9.4860	9.9786	9.5074	10.4925	10.0213	10.5139	10
51	9.4864	9.9785	9.5078	10.4921	10.0214	10.5135	9
52	9.4868	9.9785	9.5083	10.4916	10.0214	10.5131	8
53	9.4872	9.9784	9.5087	10.4912	10.0215	10.5127	7
54	9.4876	9.9784	9.5091	10.4908	10.0215	10.5123	6
55	9.4880	9.9784	9.5096	10.4903	10.0215	10.5119	5
56	9.4884	9.9783	9.5100	10.4899	10.0216	10.5115	4
57	9.4888	9.9783	9.5104	10.4895	10.0216	10.5111	3
58	9.4892	9.9782	9.5109	10.4890	10.0217	10.5107	2
59	9.4895	9.9782	9.5113	10.4886	10.0217	10.5104	1
60	9.4899	9.9782	9.5117	10.4882	10.0217	10.5100	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

18 Degrees. 161°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.4899	9.9782	9.5117	10.4882	10.0217	10.5100	60
1	9.4903	9.9781	9.5122	10.4877	10.0218	10.5096	59
2	9.4907	9.9781	9.5126	10.4873	10.0218	10.5092	58
3	9.4911	9.9780	9.5130	10.4869	10.0219	10.5088	57
4	9.4915	9.9780	9.5134	10.4865	10.0219	10.5084	56
5	9.4919	9.9780	9.5139	10.4860	10.0219	10.5080	55
6	9.4923	9.9779	9.5143	10.4856	10.0220	10.5076	54
7	9.4926	9.9779	9.5147	10.4852	10.0220	10.5073	53
8	9.4930	9.9778	9.5152	10.4847	10.0221	10.5069	52
9	9.4934	9.9778	9.5156	10.4843	10.0221	10.5065	51
10	9.4938	9.9777	9.5160	10.4839	10.0222	10.5061	50
11	9.4942	9.9777	9.5164	10.4835	10.0222	10.5057	49
12	9.4946	9.9777	9.5169	10.4830	10.0222	10.5053	48
13	9.4950	9.9776	9.5173	10.4826	10.0223	10.5049	47
14	9.4953	9.9776	9.5177	10.4822	10.0223	10.5046	46
15	9.4957	9.9775	9.5181	10.4818	10.0224	10.5042	45
16	9.4961	9.9775	9.5186	10.4813	10.0224	10.5038	44
17	9.4965	9.9775	9.5190	10.4809	10.0224	10.5034	43
18	9.4969	9.9774	9.5194	10.4805	10.0225	10.5030	42
19	9.4973	9.9774	9.5198	10.4801	10.0225	10.5026	41
20	9.4976	9.9773	9.5203	10.4796	10.0226	10.5023	40
21	9.4980	9.9773	9.5207	10.4792	10.0226	10.5019	39
22	9.4984	9.9772	9.5211	10.4788	10.0227	10.5015	38
23	9.4988	9.9772	9.5215	10.4784	10.0227	10.5011	37
24	9.4992	9.9772	9.5219	10.4780	10.0227	10.5007	36
25	9.4995	9.9771	9.5224	10.4775	10.0228	10.5004	35
26	9.4999	9.9771	9.5228	10.4771	10.0228	10.5000	34
27	9.5003	9.9770	9.5232	10.4767	10.0229	10.4996	33
28	9.5007	9.9770	9.5236	10.4763	10.0229	10.4992	32
29	9.5010	9.9769	9.5241	10.4759	10.0230	10.4989	31
30	9.5014	9.9769	9.5245	10.4754	10.0230	10.4985	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

18 Degrees. 161°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant. 10. *Co-sec.*	*Co-ar.* 0.	Min.
30	9.5014	9.9769	9.5245	10.4754	10.0230	10.4985	30
31	9.5018	9.9769	9.5249	10.4750	10.0230	10.4981	29
32	9.5022	9.9768	9.5253	10.4746	10.0231	10.4977	28
33	9.5026	9.9768	9.5257	10.4742	10.0231	10.4973	27
34	9.5029	9.9767	9.5261	10.4738	10.0232	10.4970	26
35	9.5033	9.9767	9.5266	10.4733	10.0232	10.4966	25
36	9.5037	9.9767	9.5270	10.4729	10.0233	10.4962	24
37	9.5041	9.9766	9.5274	10.4725	10.0233	10.4958	23
38	9.5044	9.9766	9.5278	10.4621	10.0233	10.4955	22
39	9.5048	9.9765	9.5282	10.4717	10.0234	10.4951	21
40	9.5052	9.9765	9.5287	10.4712	10.0234	10.4947	20
41	9.5056	9.9764	9.5291	10.4708	10.0235	10.4943	19
42	9.5059	9.9764	9.5295	10.4704	10.0235	10.4940	18
43	9.5063	9.9764	9.5299	10.4700	10.0235	10.4936	17
44	9.5067	9.9763	9.5303	10.4656	10.0236	10.4932	16
45	9.5070	9.9763	9.5307	10.4692	10.0236	10.4929	15
46	9.5074	9.9762	9.5311	10.4688	10.0237	10.4925	14
47	9.5078	9.9762	9.5316	10.4683	10.0237	10.4921	13
48	9.5082	9.9761	9.5320	10.4679	10.0238	10.4917	12
49	9.5085	9.9761	9.5324	10.4675	10.0238	10.4914	11
50	9.5089	9.9761	9.5328	10.4671	10.0238	10.4910	10
51	9.5093	9.9760	9.5332	10.4667	10.0239	10.4906	9
52	9.5096	9.9760	9.5336	10.4663	10.0239	10.4903	8
53	9.5100	9.9759	9.5340	10.4659	10.0240	10.4899	7
54	9.5104	9.9759	9.5345	10.4654	10.0240	10.4895	6
55	9.5108	9.9758	9.5349	10.4650	10.0241	10.4891	5
56	9.5111	9.9758	9.5353	10.4646	10.0241	10.4888	4
57	9.5115	9.9758	9.5357	10.4642	10.0242	10.4884	3
58	9.5119	9.9757	9.5361	10.4638	10.0242	10.4880	2
59	9.5122	9.9757	9.5365	10.4634	10.0242	10.4877	1
60	9.5126	9.9756	9.5369	10.4630	10.0243	10.4873	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

108° Degrees 71

19 Degrees. 160°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.5126	9.9756	9.5369	10.4630	10.0243	10.4873	60
1	9.5130	9.9756	9.5373	10.4626	10.0243	10.4869	59
2	9.5133	9.9755	9.5377	10.4622	10.0244	10.4866	58
3	9.5137	9.9755	9.5382	10.4617	10.0244	10.4862	57
4	9.5141	9.9754	9.5386	10.4613	10.0245	10.4858	56
5	9.5144	9.9754	9.5390	10.4609	10.0245	10.4855	55
6	9.5148	9.9754	9.5394	10.4605	10.0245	10.4851	54
7	9.5152	9.9753	9.5398	10.4601	10.0246	10.4847	53
8	9.5155	9.9753	9.5402	10.4597	10.0246	10.4844	52
9	9.5159	9.9752	9.5406	10.4593	10.0247	10.4840	51
10	9.5162	9.9752	9.5410	10.4589	10.0247	10.4837	50
11	9.5166	9.9751	9.5414	10.4585	10.0248	10.4833	49
12	9.5170	9.9751	9.5418	10.4581	10.0248	10.4829	48
13	9.5173	9.9751	9.5422	10.4577	10.0248	10.4826	47
14	9.5177	9.9750	9.5426	10.4573	10.0249	10.4822	46
15	9.5181	9.9750	9.5430	10.4569	10.0249	10.4818	45
16	9.5184	9.9749	9.5434	10.4565	10.0250	10.4815	44
17	9.5188	9.9749	9.5439	10.4560	10.0250	10.4811	43
18	9.5191	9.9748	9.5443	10.4556	10.0251	10.4808	42
19	9.5195	9.9748	9.5447	10.4552	10.0251	10.4804	41
20	9.5199	9.9747	9.5451	10.4548	10.0252	10.4800	40
21	9.5202	9.9747	9.5455	10.4544	10.0252	10.4797	39
22	9.5206	9.9747	9.5459	10.4540	10.0252	10.4793	38
23	9.5209	9.9746	9.5463	10.4536	10.0253	10.4790	37
24	9.5213	9.9746	9.5467	10.4532	10.0253	10.4786	36
25	9.5217	9.9745	9.5471	10.4528	10.0254	10.4782	35
26	9.5220	9.9745	9.5475	10.4524	10.0254	10.4779	34
27	9.5224	9.9744	9.5479	10.4520	10.0255	10.4775	33
28	9.5227	9.9744	9.5483	10.4516	10.0255	10.4772	32
29	9.5231	9.9743	9.5487	10.4512	10.0256	10.4768	31
30	9.5234	9.9743	9.5491	10.4508	10.0256	10.4765	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

109°. Degrees 70.

19 Degrees. 160°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.5234	9.9743	9.5491	10.4508	10.0256	10.4765	30
31	9.5238	9.9743	9.5495	10.4504	10.0256	10.4761	29
32	9.5242	9.9742	9.5499	10.4500	10.0257	10.4757	28
33	9.5245	9.9742	9.5503	10.4496	10.0257	10.4754	27
34	9.5249	9.9741	9.5507	10.4492	10.0258	10.4750	26
35	9.5252	9.9741	9.5511	10.4488	10.0258	10.4747	25
36	9.5256	9.9740	9.5515	10.4484	10.0259	10.4743	24
37	9.5259	9.9740	9.5519	10.4480	10.0259	10.4740	23
38	9.5263	9.9739	9.5523	10.4476	10.0260	10.4736	22
39	9.5266	9.9739	9.5527	10.4472	10.0260	10.4733	21
40	9.5270	9.9738	9.5531	10.4468	10.0261	10.4729	20
41	9.5274	9.9738	9.5535	10.4464	10.0261	10.4726	19
42	9.5277	9.9738	9.5539	10.4460	10.0261	10.4722	18
43	9.5281	9.9737	9.5543	10.4456	10.0262	10.4718	17
44	9.5284	9.9737	9.5547	10.4452	10.0262	10.4715	16
45	9.5288	9.9736	9.5551	10.4448	10.0263	10.4711	15
46	9.5291	9.9736	9.5555	10.4444	10.0263	10.4708	14
47	9.5295	9.9735	9.5559	10.4440	10.0264	10.4704	13
48	9.5298	9.9735	9.5563	10.4436	10.0264	10.4701	12
49	9.5202	9.9734	9.5567	10.4432	10.0265	10.4697	11
50	9.5305	9.9734	9.5571	10.4428	10.0265	10.4694	10
51	9.5309	9.9733	9.5575	10.4424	10.0266	10.4690	9
52	9.5312	9.9733	9.5579	10.4420	10.0266	10.4687	8
53	9.5316	9.9733	9.5583	10.4416	10.0266	10.4683	7
54	9.5319	9.9732	9.5587	10.4412	10.0267	10.4680	6
55	9.5323	9.9732	9.5590	10.4409	10.0267	10.4676	5
56	9.5326	9.9731	9.5594	10.4405	10.0268	10.4673	4
57	9.5330	9.9731	9.5598	10.4401	10.0268	10.4669	3
58	9.5333	9.9730	9.5602	10.4397	10.0269	10.4666	2
59	9.5337	9.9730	9.5606	10.4393	10.0269	10.4662	1
60	9.5340	9.9729	9.5610	10.4389	10.0270	10.4659	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

109°. Degrees 70.

20 Degrees 159°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.5340	9.9729	9.5610	10.4389	10.0270	10.4659	60
1	9.5343	9.9729	9.5614	10.4385	10.0270	10.4656	59
2	9.5347	9.9728	9.5618	10.4381	10.0271	10.4652	58
3	9.5350	9.9728	9.5622	10.4377	10.0271	10.4649	57
4	9.5354	9.9728	9.5626	10.4373	10.0271	10.4645	56
5	9.5357	9.9727	9.5630	10.4369	10.0272	10.4642	55
6	9.5361	9.9727	9.5634	10.4365	10.0272	10.4638	54
7	9.5364	9.9726	9.5638	10.4361	10.0273	10.4635	53
8	9.5368	9.9726	9.5642	10.4357	10.0273	10.4631	52
9	9.5371	9.9725	9.5645	10.4354	10.0274	10.4628	51
10	9.5375	9.9725	9.5649	10.4350	10.0274	10.4624	50
11	9.5378	9.9724	9.5653	10.4346	10.0275	10.4621	49
12	9.5381	9.9724	9.5657	10.4342	10.0275	10.4618	48
13	9.5385	9.9723	9.5661	10.4338	10.0276	10.4614	47
14	9.5388	9.9723	9.5665	10.4334	10.0276	10.4611	46
15	9.5392	9.9722	9.5669	10.4330	10.0277	10.4607	45
16	9.5395	9.9722	9.5673	10.4326	10.0277	10.4604	44
17	9.5399	9.9721	9.5677	10.4322	10.0278	10.4600	43
18	9.5402	9.9721	9.5680	10.4319	10.0278	10.4597	42
19	9.5405	9.9721	9.5684	10.4315	10.0278	10.4594	41
20	9.5409	9.9720	9.5688	10.4311	10.0279	10.4590	40
21	9.5412	9.9720	9.5692	10.4307	10.0279	10.4587	39
22	9.5416	9.9719	9.5696	10.4303	10.0280	10.4583	38
23	9.5419	9.9719	9.5700	10.4299	10.0280	10.4580	37
24	9.5422	9.9618	9.5704	10.4295	10.0281	10.4577	36
25	9.5426	9.9718	9.5708	10.4291	10.0281	10.4573	35
26	9.5429	9.9717	9.5711	10.4288	10.0282	10.4570	34
27	9.5433	9.9717	9.5715	10.4284	10.0282	10.4566	33
28	9.5436	9.9716	9.5719	10.4280	10.0283	10.4563	32
29	9.5439	9.9716	9.5723	10.4276	10.0283	10.4560	31
30	9.5443	9.9715	9.5727	10.4272	10.0284	10.4556	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co sec.* 0. *Co-ar.*	Secant	Min.

110°. Degrees 69.

20 Degrees. 159°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co.ar.*	Min.
30	9.5443	9.9715	9.5727	10.4272	10.0284	10.4556	30
31	9.5446	9.9715	9.5731	10.4268	10.0284	10.4553	29
32	9.5450	9.9714	9.5735	10.4264	10.0285	10.4550	28
33	9.5453	9.9714	9.5738	10.4261	10.0285	10.4546	27
34	9.5456	9.9713	9.5742	10.4257	10.0286	10.4543	26
35	9.5460	9.9713	9.5746	10.4253	10.0286	10.4539	25
36	9.5463	9.9713	9.5750	10.4249	10.0286	10.4536	24
37	9.5466	9.9712	9.5754	10.4245	10.0287	10.4533	23
38	9.5470	9.9712	9.5758	10.4241	10.0287	10.4529	22
39	9.5473	9.9711	9.5761	10.4238	10.0288	10.4526	21
40	9.5476	9.9711	9.5765	10.4234	10.0288	10.4523	20
41	9.5480	9.9710	9.5769	10.4230	10.0289	10.4519	19
42	9.5483	9.9710	9.5773	10.4226	10.0289	10.4516	18
43	9.5486	9.9709	9.5777	10.4222	10.0290	10.4513	17
44	9.5490	9.9709	9.5781	10.4218	10.0290	10.4509	16
45	9.5493	9.9708	9.5784	10.4215	10.0291	10.4506	15
46	9.5496	9.9708	9.5788	10.4211	10.0291	10.4503	14
47	9.5500	9.9707	9.5792	10.4207	10.0292	10.4499	13
48	9.5503	9.9707	9.5796	10.4203	10.0292	10.4496	12
49	9.5506	9.9706	9.5800	10.4199	10.0293	10.4493	11
50	9.5510	9.9706	9.5803	10.4196	10.0293	10.4489	10
51	9.5513	9.9705	9.5807	10.4192	10.0294	10.4486	9
52	9.5516	9.9705	9.5811	10.4188	10.0294	10.4483	8
53	9.5520	9.9704	9.5815	10.4184	10.0295	10.4479	7
54	9.5523	9.9704	9.5819	10.4180	10.0295	10.4476	6
55	9.5526	9.9703	9.5822	10.4177	10.0296	10.4473	5
56	9.5530	9.9703	9.5826	10.4173	10.0296	10.4469	4
57	9.5533	9.9702	9.5830	10.4169	10.0297	10.4466	3
58	9.5536	9.9702	9.5834	10.4165	10.0297	10.4463	2
59	9.5540	9.9702	9.5838	10.4162	10.0298	10.4460	1
60	9.5543	9.9701	9.5841	10.4158	10.0298	10.4456	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co ar.*	Secant.	Min.

110°. Degrees 69.

21 Degrees. 158°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant. 10. *Co-sec.*	0. *Co-ar.*	Min.
0	9.5543	9.9701	9.5841	10.4158	10.0298	10.4456	60
1	9.5546	9.9701	9.5845	10.4154	10.0298	10.4453	59
2	9.5549	9.9700	9.5849	10.4150	10.0299	10.4450	58
3	9.5553	9.9700	9.5853	10.4146	10.0299	10.4446	57
4	9.5556	9.9699	9.5856	10.4143	10.0300	10.4443	56
5	9.5559	9.9699	9.5860	10.4139	10.0300	10.4440	55
6	9.5562	9.9698	9.5864	10.4135	10.0301	10.4437	54
7	9.5566	9.9698	9.5868	10.4131	10.0301	10.4433	53
8	9.5569	9.9697	9.5871	10.4128	10.0302	10.4430	52
9	9.5572	9.9697	9.5875	10.4124	10.0302	10.4427	51
10	9.5576	9.9696	9.5879	10.4120	10.0303	10.4423	50
11	9.5579	9.9696	9.5883	10.4116	10.0303	10.4420	49
12	9.5582	9.9695	9.5886	10.4113	10.0304	10.4417	48
13	9.5585	9.9695	9.5890	10.4109	10.0304	10.4414	47
14	9.5589	9.9694	9.5894	10.4105	10.0305	10.4410	46
15	9.5592	9.9694	9.5898	10.4101	10.0305	10.4407	45
16	9.5595	9.9693	9.5901	10.4098	10.0306	10.4404	44
17	9.5598	9.9693	9.5905	10.4094	10.0306	10.4401	43
18	9.5602	9.9692	9.5909	10.4090	10.0307	10.4397	42
19	9.5605	9.9692	9.5913	10.4086	10.0307	10.4394	41
20	9.5608	9.9691	9.5916	10.4083	10.0308	10.4391	40
21	9.5611	9.9691	9.5920	10.4079	10.0308	10.4388	39
22	9.5615	9.9690	9.5924	10.4075	10.0309	10.4384	38
23	9.5618	9.9690	9.5927	10.4072	10.0309	10.4381	37
24	9.5621	9.9689	9.5931	10.4068	10.0310	10.4378	36
25	9.5624	9.9689	9.5935	10.4064	10.0310	10.4375	35
26	9.5627	9.9688	9.5939	10.4060	10.0311	10.4372	34
27	9.5631	9.9688	9.5942	10.4057	10.0311	10.4368	33
28	9.5634	9.9687	9.5946	10.4053	10.0312	10.4365	32
29	9.5637	9.9687	9.5950	10.4049	10.0312	10.4362	31
30	9.5640	9.9686	9.5953	10.4046	10.0313	10.4359	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	9. *Co-sec.*	Secant.	Min.

111°. Degrees 68.

21 Degrees. 158°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 0. *Co-ar.*	Min.
30	9.5640	9.9686	9.5953	10.4046	10.0313	10 4359	30
31	9.5643	9 9686	9.5957	10.4042	10.0313	10.4356	29
32	9.5647	9.9685	9.5961	10.4038	10 0314	10.4352	28
33	9.5650	9.9685	9.5965	10.4034	10.0314	10.4349	27
34	9.5653	9.9684	9.5968	10.4031	10.0315	10.4346	26
35	9.5656	9.9684	9.5972	10.4027	10.0315	10 4343	25
36	9.5659	9.9683	9.5976	10 4023	10.0316	10.4340	24
37	9.5663	9.9683	9.5979	10.4020	10.0316	10.4336	23
38	9.5666	9.9682	9.5983	10.4016	10.0317	10.4333	22
39	9.5669	9.9682	9.5987	10 4012	10.0317	10.4330	21
40	9.5672	9.9681	9.5990	10.4009	10.0318	10.4327	20
41	9.5675	9.9681	9.5994	10 4005	10.0318	10.4324	19
42	9.5679	9.9680	9.5998	10.4001	10.0319	10.4320	18
43	9.5682	9.9680	9.6001	10.3998	10.0319	10.4317	17
44	9.5685	9.9679	9.6005	10.3994	10.0320	10.4314	16
45	9.5688	9.9679	9.6009	10.3990	10.0320	10.4311	15
46	9.5691	9.9678	9.6012	10.3987	10.0321	10.4308	14
47	9.5694	9.9678	9.6016	10.3983	10.0321	10.4305	13
48	9.5698	9.9677	9.6020	10.3979	10.0322	10.4301	12
49	9.5701	9.9677	9.6023	10.3976	10.0322	10.4298	11
50	9.5704	9.9676	9.6027	10.3972	10.0323	10.4295	10
51	9.5707	9.9676	9.6031	10.3968	10.0323	10.4292	9
52	9.5710	9.9675	9.6034	10.3965	10.0324	10.4289	8
53	9.5713	9.9675	9.6038	10.3961	10.0324	10 4286	7
54	9.5716	9.9674	9.6042	10.3957	10.0325	10.4283	6
55	9.5720	9.9674	9.6045	10.3954	10.0325	10 4279	5
56	9.5723	9.9673	9.6049	10.3950	10.0326	10.4276	4
57	9.5726	9.9673	9.6053	10.3946	10.0326	10 4273	3
58	9.5729	9.9672	9.6056	10.3943	10.0327	10.4270	2
59	9.5732	9.9672	9.6060	10.3939	10.0327	10.4267	1
60	9.5735	9 9671	9.6064	10.3935	10.0328	10.4264	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

111°. Degrees 68.

22 Degrees. 157°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 2 *Co-ar.*	Min.
0	9.5735	9.9671	9.6064	10.3935	10.0328	10.4264	60
1	9.5738	9.9671	9.6067	10.3932	10.0328	10.4261	59
2	9.5741	9.9670	9.6071	10.3928	10.0329	10.4258	58
3	9.5745	9.9670	9.6075	10.3925	10.0329	10.4254	57
4	9.5748	9.9669	9.6078	10.3921	10.0330	10.4251	56
5	9.5751	9.9669	9.6082	10.3917	10.0330	10.4248	55
6	9.5754	9.9668	9.6085	10.3914	10.0331	10.4245	54
7	9.5757	9.9668	9.6089	10.3910	10.0331	10.4242	53
8	9.5760	9.9667	9.6093	10.3906	10.0332	10.4239	52
9	9.5763	9.9667	9.6096	10.3903	10.0332	10.4236	51
10	9.5766	9.9666	9.6100	10.3899	10.0333	10.4233	50
11	9.5769	9.9666	9.6103	10.3896	10.0333	10.4230	49
12	9.5773	9.9665	9.6107	10.3892	10.0334	10.4226	48
13	9.5776	9.9664	9.6111	10.3888	10.0335	10.4223	47
14	9.5779	9.9664	9.6114	10.3885	10.0335	10.4220	46
15	9.5782	9.9663	9.6118	10.3881	10.0336	10.4217	45
16	9.5785	9.9663	9.6122	10.3877	10.0336	10.4214	44
17	9.5788	9.9662	9.6125	10.3874	10.0337	10.4211	43
18	9.5791	9.9662	9.6129	10.3870	10.0337	10.4208	42
19	9.5794	9.9661	9.6132	10.3867	10.0338	10.4205	41
20	9.5797	9.9661	9.6136	10.3863	10.0338	10.4202	40
21	9.5800	9.9660	9.6140	10.3860	10.0339	10.4199	39
22	9.5803	9.9660	9.6143	10.3856	10.0339	10.4196	38
23	9.5806	9.9659	9.6147	10.3852	10.0340	10.4193	37
24	9.5810	9.9659	9.6150	10.3849	10.0340	10.4189	36
25	9.5813	9.9658	9.6154	10.3845	10.0341	10.4186	35
26	9.5816	9.9658	9.6157	10.3842	10.0341	10.4183	34
27	9.5819	9.9657	9.6161	10.3838	10.0342	10.4180	33
28	9.5822	9.9657	9.6165	10.3834	10.0342	10.4177	32
29	9.5825	9.9656	9.6168	10.3831	10.0343	10.4174	31
30	9.5828	9.9656	9.6172	10.3827	10.0343	10.4171	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

112° Degrees 67.

22 Degrees. 157°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.5828	9.9656	9.6172	10.3827	10.0343	10.4171	30
31	9.5831	9.9655	9.6175	10.3824	10.0344	10.4168	29
32	9.5834	9.9655	9.6179	10.3820	10.0344	10.4165	28
33	9.5837	9.9654	9.6182	10.3817	10.0345	10.4162	27
34	9.5840	9.9654	9.6186	10.3813	10.0345	10.4159	26
35	9.5843	9.9653	9.6190	10.3809	10.0346	10.4156	25
36	9.5846	9.9653	9.6193	10.3806	10.0346	10.4153	24
37	9.5849	9.9652	9.6197	10.3802	10.0347	10.4150	23
38	9.5852	9.9651	9.6200	10.3799	10.0348	10.4147	22
39	9.5855	9.9651	9.6204	10.3795	10.0348	10.4144	21
40	9.5858	9.9650	9.6207	10.3792	10.0349	10.4141	20
41	9.5861	9.9650	9.6211	10.3788	10.0349	10.4138	19
42	9.5864	9.9649	9.6214	10.3785	10.0350	10.4135	18
43	9.5867	9.9649	9.6218	10.3781	10.0350	10.4132	17
44	9.5870	9.9648	9.6222	10.3777	10.0351	10.4129	16
45	9.5873	9.9648	9.6225	10.3774	10.0351	10.4126	15
46	9.5876	9.9647	9.6229	10.3770	10.0352	10.4123	14
47	9.5879	9.9647	9.6232	10.3767	10.0352	10.4120	13
48	9.5882	9.9646	9.6236	10.3763	10.0353	10.4117	12
49	9.5885	9.9646	9.6239	10.3760	10.0353	10.4114	11
50	9.5888	9.9645	9.6243	10.3756	10.0354	10.4111	10
51	9.5891	9.9645	9.6246	10.3753	10.0354	10.4108	9
52	9.5894	9.9644	9.6250	10.3749	10.0355	10.4105	8
53	9.5897	9.9644	9.6253	10.3746	10.0356	10.4102	7
54	9.5900	9.9643	9.6257	10.3742	10.0356	10.4099	6
55	9.5903	9.9642	9.6260	10.3739	10.0357	10.4096	5
56	9.5906	9.9642	9.6264	10.3735	10.0357	10.4093	4
57	9.5909	9.9641	9.6267	10.3732	10.0358	10.4090	3
58	9.5912	9.9641	9.6271	10.3728	10.0358	10.4087	2
59	9.5915	9.9640	9.6275	10.3724	10.0359	10.4084	1
60	9.5918	9.9640	9.6278	10.3721	10.0359	10.4081	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

112°. Degrees 67.

23 Degrees. 156°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.5918	9.9640	9.6278	10.3721	10.0359	10.4081	60
1	9.5921	9.9639	9.6282	10.3717	10.0360	10.4078	59
2	9.5924	9.9639	9.6285	10.3714	10.0360	10.4075	58
3	9.5927	9.9638	9.6289	10.3710	10.0361	10.4072	57
4	9.5930	9.9638	9.6292	10.3707	10.0361	10.4069	56
5	9.5933	9.9637	9.6296	10.3703	10.0362	10.4066	55
6	9.5936	9.9637	9.6299	10.3700	10.0362	10.4063	54
7	9.5939	9.9636	9.6303	10.3696	10.0363	10.4060	53
8	9.5942	9.9635	9.6306	10.3693	10.0364	10.4057	52
9	9.5945	9.9635	9.6310	10.3689	10.0364	10.4054	51
10	9.5948	9.9634	9.6313	10.3686	10.0365	10.4051	50
11	9.5951	9.9634	9.6317	10.3682	10.0365	10.4048	49
12	9.5954	9.9633	9.6320	10.3679	10.0366	10.4045	48
13	9.5957	9.9633	9.6324	10.3675	10.0366	10.4042	47
14	9.5960	9.9632	9.6327	10.3672	10.0367	10.4039	46
15	9.5963	9.9632	9.6330	10.3669	10.0367	10.4036	45
16	9.5966	9.9631	9.6334	10.3665	10.0368	10.4033	44
17	9.5969	9.9631	9.6337	10.3662	10.0368	10.4030	43
18	9.5971	9.9630	9.6341	10.3658	10.0369	10.4028	42
19	9.5974	9.9629	9.6344	10.3655	10.0370	10.4025	41
20	9.5977	9.9629	9.6348	10.3651	10.0370	10.4022	40
21	9.5980	9.9628	9.6351	10.3648	10.0371	10.4019	39
22	9.5983	9.9628	9.6355	10.3644	10.0371	10.4016	38
23	9.5986	9.9627	9.6358	10.3641	10.0372	10.4013	37
24	9.5989	9.9627	9.6362	10.3637	10.0372	10.4010	36
25	9.5992	9.9626	9.6365	10.3634	10.0373	10.4007	35
26	9.5995	9.9626	9.6369	10.3630	10.0373	10.4004	34
27	9.5998	9.9625	9.6372	10.3627	10.0374	10.4001	33
28	9.6001	9.9625	9.6376	10.3623	10.0374	10.3998	32
29	9.6004	9.9624	9.6379	10.3620	10.0375	10.3995	31
30	9.6007	9.9623	9.6383	10.3616	10.0376	10.3993	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

113°. Degrees 66

23 Degrees. 156°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.6007	9.9623	9.6383	10.3616	10.0376	10.3993	30
31	9.6009	9.9623	9.6386	10.3613	10.0376	10.3990	29
32	9.6012	9.9622	9.6389	10.3610	10.0377	10.3987	28
33	9.6015	9.9622	9.6393	10.3606	10.0377	10.3984	27
34	9.6018	9.9621	9.6396	10.3603	10.0378	10.3981	26
35	9.6021	9.9621	9.6400	10.3599	10.0378	10.3978	25
36	9.6024	9.9620	9.6403	10.3596	10.0379	10.3975	24
37	9.6027	9.9620	9.6407	10.3592	10.0379	10.3972	23
38	9.6030	9.9619	9.6410	10.3589	10.0380	10.3969	22
39	9.6033	9.9619	9.6414	10.3585	10.0380	10.3966	21
40	9.6035	9.9618	9.6417	10.3582	10.0381	10.3964	20
41	9.6038	9.9617	9.6420	10.3579	10.0382	10.3961	19
42	9.6041	9.9617	9.6424	10.3575	10.0382	10.3958	18
43	9.6044	9.9616	9.6427	10.3572	10.0383	10.3955	17
44	9.6047	9.9616	9.6431	10.3568	10.0383	10.3952	16
45	9.6050	9.9615	9.6434	10.3565	10.0384	10.3949	15
46	9.6053	9.9615	9.6438	10.3561	10.0384	10.3946	14
47	9.6056	9.9614	9.6441	10.3558	10.0385	10.3943	13
48	9.6058	9.9614	9.6444	10.3555	10.0385	10.3941	12
49	9.6061	9.9613	9.6448	10.3551	10.0386	10.3938	11
50	9.6064	9.9612	9.6451	10.3548	10.0387	10.3935	10
51	9.6067	9.9612	9.6455	10.3544	10.0387	10.3932	9
52	9.6070	9.9611	9.6458	10.3541	10.0388	10.3929	8
53	9.6073	9.9611	9.6461	10.3538	10.0388	10.3926	7
54	9.6076	9.9610	9.6465	10.3534	10.0389	10.3923	6
55	9.6078	9.9610	9.6468	10.3531	10.0389	10.3921	5
56	9.6081	9.9609	9.6472	10.3527	10.0390	10.3918	4
57	9.6084	9.9608	9.6475	10.3524	10.0391	10.3915	3
58	9.6087	9.9608	9.6479	10.3520	10.0391	10.3912	2
59	9.6090	9.9607	9.6482	10.3517	10.0392	10.3909	1
60	9.6093	9.9607	9.6485	10.3514	10.0392	10.3906	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

113°. Degrees 66.

24 Degrees 155°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.6093	9.9607	9.6485	10.3514	10.0392	10.3906	60
1	9.6095	9.9606	9.6489	10.3510	10.0393	10.3904	59
2	9.6098	9.9606	9.6492	10.3507	10.0393	10.3901	58
3	9.6101	9.9605	9.6496	10.3503	10.0394	10.3898	57
4	9.6104	9.9605	9.6499	10.3500	10.0394	10.3895	56
5	9.6107	9.9604	9.6502	10.3497	10.0395	10.3892	55
6	9.6110	9.9603	9.6506	10.3493	10.0396	10.3889	54
7	9.6112	9.9603	9.6509	10.3490	10.0396	10.3887	53
8	9.6115	9.9602	9.6512	10.3487	10.0397	10.3884	52
9	9.6118	9.9602	9.6516	10.3483	10.0397	10.3881	51
10	9.6121	9.9601	9.6519	10.3480	10.0398	10.3878	50
11	9.6124	9.9601	9.6523	10.3476	10.0398	10.3875	49
12	9.6127	9.9600	9.6526	10.3473	10.0399	10.3872	48
13	9.6129	9.9599	9.6529	10.3470	10.0400	10.3870	47
14	9.6132	9.9599	9.6533	10.3466	10.0400	10.3867	46
15	9.6135	9.9598	9.6536	10.3463	10.0401	10.3864	45
16	9.6138	9.9598	9.6540	10.3460	10.0401	10.3861	44
17	9.6141	9.9597	9.6543	10.3456	10.0402	10.3858	43
18	9.6143	9.9597	9.6546	10.3453	10.0402	10.3856	42
19	9.6146	9.9596	9.6550	10.3449	10.0403	10.3853	41
20	9.6149	9.9595	9.6553	10.3446	10.0404	10.3850	40
21	9.6152	9.9595	9.6556	10.3443	10.0404	10.3847	39
22	9.6155	9.9594	9.6560	10.3439	10.0405	10.3844	38
23	9.6157	9.9594	9.6563	10.3436	10.0405	10.3842	37
24	9.6160	9.9593	9.6566	10.3433	10.0406	10.3839	36
25	9.6163	9.9593	9.6570	10.3429	10.0406	10.3836	35
26	9.6166	9.9592	9.6573	10.3426	10.0407	10.3833	34
27	9.6168	9.9591	9.6576	10.3423	10.0408	10.3831	33
28	9.6171	9.9591	9.6580	10.3419	10.0408	10.3828	32
29	9.6174	9.9590	9.6583	10.3416	10.0409	10.3825	31
30	9.6177	9.9590	9.6587	10.3412	10.0409	10.3822	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

114°. Degrees 65.

24 Degrees. 155°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.6177	9.9590	9.6587	10.3412	10.0409	10.3822	30
31	9.6180	9.9589	9.6590	10.3409	10.0410	10.3819	29
32	9.6182	9.9589	9.6593	10.3406	10.0410	10.3817	28
33	9.6185	9.9588	9.6597	10.3402	10.0411	10.3814	27
34	9.6188	9.9587	9.6600	10.3399	10.0412	10.3811	26
35	9.6191	9.9587	9.6603	10.3396	10.0412	10.3808	25
36	9.6193	9.9586	9.6607	10.3392	10.0413	10.3806	24
37	9.6196	9.9586	9.6610	10.3389	10.0413	10.3803	23
38	9.6199	9.9585	9.6613	10.3386	10.0414	10.3800	22
39	9.6202	9.9585	9.6617	10.3382	10.0414	10.3797	21
40	9.6204	9.9584	9.6620	10.3379	10.0415	10.3795	20
41	9.6207	9.9583	9.6623	10.3376	10.0416	10.3792	19
42	9.6210	9.9583	9.6627	10.3372	10.0416	10.3789	18
43	9.6213	9.9582	9 6630	10.3369	10.0417	10.3786	17
44	9.6215	9.9582	9.6633	10.3366	10.0417	10.3784	16
45	9.6218	9.9581	9.6637	10.3362	10.0418	10.3781	15
46	9.6221	9.9580	9.6640	10.3359	10.0419	10.3778	14
47	9.6224	9.9580	9.6643	10.3356	10.0419	10.3775	13
48	9.6226	9.9579	9.6647	10.3352	10.0420	10.3773	12
49	9.6229	9.9579	9.6650	10.3349	10.0420	10.3770	11
50	9.6232	9.9578	9.6653	10.3346	10.0421	10.3767	10
51	9.6235	9.9578	9.6656	10.3343	10.0421	10.3764	9
52	9.6237	9.9577	9.6660	10.3339	10.0422	10.3762	8
53	9.6240	9.9576	9.6663	10.3336	10.0423	10.3759	7
54	9.6243	9.9576	9.6666	10.3333	10.0423	10 3756	6
55	9.6245	9.9575	9.6670	10.3329	10.0424	10.3754	5
56	9.6248	9.9575	9.6673	10.3326	10.0424	10.3751	4
57	9.6251	9.9574	9.6676	10.3323	10.0425	10.3748	3
58	9.6254	9.9573	9.6680	10 3319	10.0426	10.3745	2
59	9.6256	9.9573	9.6683	10.3316	10.0426	10.3743	1
60	9.6259	9.9572	9.6686	10.3313	10.0427	10.3740	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

114°. Degrees 65.

25 Degrees. 154°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.6259	9.9572	9.6686	10.3313	10.0427	10.3740	60
1	9.6262	9.9572	9.6690	10.3309	10.0427	10.3737	59
2	9.6264	9.9571	9.6693	10.3306	10.0428	10.3735	58
3	9.6267	9.9570	9.6696	10.3303	10.0429	10.3732	57
4	9.6270	9.9570	9.6699	10.3300	10.0429	10.3729	56
5	9.6273	9.9569	9.6703	10.3296	10.0430	10.3727	55
6	9.6275	9.9569	9.6706	10.3293	10.0430	10.3724	54
7	9.6278	9.9568	9.6709	10.3290	10.0431	10.3721	53
8	9.6281	9.9568	9.6713	10.3286	10.0431	10.3718	52
9	9.6283	9.9567	9.6716	10.3283	10.0432	10.3716	51
10	9.6286	9.9566	9.6719	10.3280	10.0433	10.3713	50
11	9.6289	9.9566	9.6722	10.3277	10.0433	10.3710	49
12	9.6291	9.9565	9.6726	10.3273	10.0434	10.3708	48
13	9.6294	9.9565	9.6729	10.3270	10.0434	10.3705	47
14	9.6297	9.9564	9.6732	10.3267	10.0435	10.3702	46
15	9.6299	9.9563	9.6736	10.3263	10.0436	10.3700	45
16	9.6302	9.9563	9.6739	10.3260	10.0436	10.3697	44
17	9.6305	9.9562	9.6742	10.3257	10.0437	10.3694	43
18	9.6307	9.9562	9.6745	10.3254	10.0437	10.3692	42
19	9.6310	9.9561	9.6749	10.3250	10.0438	10.3689	41
20	9.6313	9.9560	9.6752	10.3247	10.0439	10.3686	40
21	9.6315	9.9560	9.6755	10.3244	10.0439	10.3684	39
22	9.6318	9.9559	9.6758	10.3241	10.0440	10.3681	38
23	9.6321	9.9559	9.6762	10.3237	10.0440	10.3678	37
24	9.6323	9.9558	9.6765	10.3234	10.0441	10.3676	36
25	9.6326	9.9557	9.6768	10.3231	10.0442	10.3673	35
26	9.6329	9.9557	9.6771	10.3228	10.0442	10.3670	34
27	9.6331	9.9556	9.6775	10.3224	10.0443	10.3668	33
28	9.6334	9.9556	9.6778	10.3221	10.0443	10.3665	32
29	9.6337	9.9555	9.6781	10.3218	10.0444	10.3662	31
30	9.6339	9.9554	9.6784	10.3215	10.0445	10.3660	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

115°. Degrees 64.

25 Degrees. 154°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.6339	9.9554	9.6784	10.3215	10.0445	10.3660	30
31	9.6342	9.9554	9.6788	10.3211	10.0445	10.3657	29
32	9.6345	9.9553	9.6791	10.3208	10.0446	10.3654	28
33	9.6347	9.9553	9.6794	10.3205	10.0446	10.3652	27
34	9.6350	9.9552	9.6797	10.3202	10.0447	10.3649	26
35	9.6353	9.9551	9.6801	10.3198	10.0448	10.3646	25
36	9.6355	9.9551	9.6804	10.3195	10.0448	10.3644	24
37	9.6358	9.9550	9.6807	10.3192	10.0449	10.3641	23
38	9.6360	9.9550	9.6810	10.3189	10.0449	10.3639	22
39	9.6363	9.9549	9.6814	10.3185	10.0450	10.3636	21
40	9.6366	9.9548	9.6817	10.3182	10.0451	10.3633	20
41	9.6368	9.9548	9.6820	10.3179	10.0451	10.3631	19
42	9.6371	9.9547	9.6823	10.3176	10.0452	10.3628	18
43	9.6374	9.9547	9.6827	10.3172	10.0452	10.3625	17
44	9.6376	9.9546	9.6830	10.3169	10.0453	10.3623	16
45	9.6379	9.9545	9.6833	10.3166	10.0454	10.3620	15
46	9.6381	9.9545	9.6836	10.3163	10.0454	10.3618	14
47	9.6384	9.9544	9.6840	10.3159	10.0455	10.3615	13
48	9.6387	9.9543	9.6843	10.3156	10.0456	10.3612	12
49	9.6389	9.9543	9.6846	10.3153	10.0456	10.3610	11
50	9.6392	9.9542	9.6849	10.3150	10.0457	10.3607	10
51	9.6395	9.9542	9.6852	10.3147	10.0457	10.3604	9
52	9.6397	9.9541	9.6856	10.3143	10.0458	10.3602	8
53	9.6400	9.9540	9.6859	10.3140	10.0459	10.3599	7
54	9.6402	9.9540	9.6862	10.3137	10.0459	10.3597	6
55	9.6405	9.9539	9.6865	10.3134	10.0460	10.3594	5
56	9.6408	9.9539	9.6868	10.3131	10.0460	10.3591	4
57	9.6410	9.9538	9.6872	10.3127	10.0461	10.3589	3
58	9.6413	9.9537	9.6875	10.3124	10.0462	10.3586	2
59	9.6415	9.9537	9.6878	10.3121	10.0462	10.3584	1
60	9.6418	9.9536	9.6881	10.3118	10.0463	10.3581	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

115°. Degrees 64.

26 Degrees 153°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* o. *Co-ar.*	Min.
0	9.6418	9.9536	9.6881	10.3118	10.0463	10.3581	60
1	9.6421	9.9535	9.6885	10.3114	10.0464	10.3578	59
2	9.6423	9.9535	9.6888	10.3111	10.0464	10.3576	58
3	9.6426	9.9534	9.6891	10.3108	10.0465	10.3573	57
4	9.6428	9.9534	9.6894	10.3105	10.0465	10.3571	56
5	9.6431	9.9533	9.6897	10.3102	10.0466	10.3568	55
6	9.6433	9.9532	9.6901	10.3098	10.0467	10.3566	54
7	9.6436	9.9532	9.6904	10.3095	10.0467	10.3563	53
8	9.6439	9.9531	9.6907	10.3092	10.0468	10.3560	52
9	9.6441	9.9531	9.6910	10.3089	10.0468	10.3558	51
10	9.6444	9.9530	9.6913	10.3086	10.0469	10.3555	50
11	9.6446	9.9529	9.6917	10.3083	10.0470	10.3553	49
12	9.6449	9.9529	9.6920	10.3079	10.0470	10.3550	48
13	9.6451	9.9528	9.6923	10.3076	10.0471	10.3548	47
14	9.6454	9.9527	9.6926	10.3073	10.0472	10.3545	46
15	9.6457	9.9527	9.6929	10.3070	10.0472	10.3542	45
16	9.6459	9.9526	9.6932	10.3067	10.0473	10.3540	44
17	9.6462	9.9526	9.6936	10.3063	10.0473	10.3537	43
18	9.6464	9.9525	9.6939	10.3060	10.0474	10.3535	42
19	9.6467	9.9524	9.6942	10.3057	10.0475	10.3532	41
20	9.6469	9.9524	9.6945	10.3054	10.0475	10.3530	40
21	9.6472	9.9523	9.6948	10.3051	10.0476	10.3527	39
22	9.6474	9.9522	9.6952	10.3047	10.0477	10.3525	38
23	9.6477	9.9522	9.6955	10.3044	10.0477	10.3522	37
24	9.6480	9.9521	9.6958	10.3041	10.0478	10.3519	36
25	9.6482	9.9521	9.6961	10.3038	10.0478	10.3517	35
26	9.6485	9.9520	9.6964	10.3035	10.0479	10.3514	34
27	9.6487	9.9519	9.6967	10.3032	10.0480	10.3512	33
28	9.6490	9.9519	9.6971	10.3028	10.0480	10.3509	32
29	9.6492	9.9518	9.6974	10.3025	10.0481	10.3507	31
30	9.6495	9.9517	9.6977	10.3022	10.0482	10.3504	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* o. *Co-ar.*	Secant.	Min.

116°. Degrees 63.

26 Degrees. 153°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.6495	9.9517	9.6977	10.3022	10.0482	10.3504	30
31	9.6497	9.9517	9.6980	10.3019	10.0482	10.3502	29
32	9.6500	9.9516	9.6983	10.3016	10.0483	10.3499	28
33	9.6502	9.9516	9.6986	10.3013	10.0483	10.3497	27
34	9.6505	9.9515	9.6990	10.3009	10.0484	10.3494	26
35	9.6507	9.9514	9.6993	10.3006	10.0485	10.3492	25
36	9.6510	9.9514	9.6996	10.3003	10.0485	10.3489	24
37	9.6512	9.9513	9.6999	10.3000	10.0486	10.3487	23
38	9.6515	9.9512	9.7002	10.2997	10.0487	10.3484	22
39	9.6518	9.9512	9.7005	10.2994	10.0487	10.3482	21
40	9.6520	9.9511	9.7008	10.2991	10.0488	10.3479	20
41	9.6523	9.9510	9.7012	10.2987	10.0489	10.3476	19
42	9.6525	9.9510	9.7015	10.2984	10.0489	10.3474	18
43	9.6528	9.9509	9.7018	10.2981	10.0490	10.3471	17
44	9.6530	9.9509	9.7021	10.2978	10.0490	10.3469	16
45	9.6533	9.9508	9.7024	10.2975	10.0491	10.3466	15
46	9.6535	9.9507	9.7027	10.2972	10.0492	10.3464	14
47	9.6538	9.9507	9.7030	10.2969	10.0492	10.3461	13
48	9.6540	9.9506	9.7034	10.2965	10.0493	10.3459	12
49	9.6543	9.9505	9.7037	10.2962	10.0494	10.3456	11
50	9.6545	9.9505	9.7040	10.2959	10.0494	10.3454	10
51	9.6548	9.9504	9.7043	10.2956	10.0495	10.3451	9
52	9.6550	9.9503	9.7046	10.2953	10.0496	10.3449	8
53	9.6553	9.9503	9.7049	10.2950	10.0496	10.3446	7
54	9.6555	9.9502	9.7052	10.2947	10.0497	10.3444	6
55	9.6558	9.9502	9.7056	10.2943	10.0497	10.3441	5
56	9.6560	9.9501	9.7059	10.2940	10.0498	10.3439	4
57	9.6563	9.9500	9.7062	10.2937	10.0499	10.3436	3
58	9.6565	9.9500	9.7065	10.2934	10.0499	10.3434	2
59	9.6567	9.9499	9.7068	10.2931	10.0500	10.3432	1
60	9.6570	9.9498	9.7071	10.2928	10.0501	10.3429	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

116°. Degrees 63.

27 Degrees. 152°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.6570	9.9498	9.7071	10.2928	10.0501	10.3429	60
1	9.6572	9.9498	9.7074	10.2925	10.0501	10.3427	59
2	9.6575	9.9497	9.7077	10.2922	10.0502	10.3424	58
3	9.6577	9.9496	9.7081	10.2918	10.0503	10.5422	57
4	9.6580	9.9496	9.7084	10.2915	10.0503	10.3419	56
5	9.6582	9.9495	9.7087	10.2912	10.0504	10.3417	55
6	9.6585	9.9494	9.7090	10.2909	10.0505	10.3414	54
7	9.6587	9.9494	9.7093	10.2906	10.0505	10.3412	53
8	9.6590	9.9493	9.7096	10.2903	10.0506	10.3409	52
9	9.6592	9.9493	9.7099	10.2900	10.0507	10.3407	51
10	9.6595	9.9492	9.7102	10.2897	10.0507	10.3404	50
11	9.6597	9.9491	9.7105	10.2894	10.0508	10.3402	49
12	9.6600	9.9491	9.7109	10.2890	10.0508	10.3399	48
13	9.6602	9.9490	9.7112	10.2887	10.0509	10.3397	47
14	9.6605	9.9489	9.7115	10.2884	10.0510	10.3394	46
15	9.6607	9.9489	9.7118	10.2881	10.0510	10.3392	45
16	9.6609	9.9488	9.7121	10.2878	10.0511	10.3390	44
17	9.6612	9.9487	9.7124	10.2875	10.0512	10.3387	43
18	9.6614	9.9487	9.7127	10.2872	10.0512	10.3385	42
19	9.6617	9.9486	9.7130	10.2869	10.0513	10.3382	41
20	9.6619	9.9485	9.7133	10.2866	10.0514	10.3380	40
21	9.6622	9.9485	9.7136	10.2863	10.0514	10.3377	39
22	9.6624	9.9484	9.7140	10.2859	10.0515	10.3375	38
23	9.6627	9.9483	9.7143	10.2856	10.0516	10.3372	37
24	9.6629	9.9483	9.7146	10.2853	10.0516	10.3370	36
25	9.6631	9.9482	9.7149	10.2850	10.0517	10.3368	35
26	9.6634	9.9481	9.7152	10.2847	10.0518	10.3365	34
27	9.6636	9.9481	9.7155	10.2844	10.0518	10.3363	33
28	9.6639	9.9480	9.7158	10.2841	10.0519	10.3360	32
29	9.6641	9.9479	9.7161	10.2838	10.0520	10.3358	31
30	9.6644	9.9479	9.7164	10.2835	10.0520	10.3355	30
Min.	*Co-fine,*	Sine,	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

117°. Degrees 62.

27 Degrees. 152°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.6644	9.9479	9.7164	10.2835	10.0520	10.3355	30
31	9.6646	9.9478	9.7167	10.2832	10.0521	10.3353	29
32	9.6648	9.9477	9.7170	10.2829	10.0522	10.3351	28
33	9.6651	9.9477	9.7174	10.2825	10.0522	10.3348	27
34	9.6653	9.9476	9.7177	10.2822	10.0523	10.3346	26
35	9.6656	9.9476	9.7180	10.2819	10.0524	10.3343	25
36	9.6658	9.9475	9.7183	10.2816	10.0524	10.3341	24
37	9.6661	9.9474	9.7186	10.2813	10.0525	10.3339	23
38	9.6663	9.9474	9.7189	10.2810	10.0525	10.3336	22
39	9.6665	9.9473	9.7192	10.2807	10.0526	10.3334	21
40	9.6668	9.9472	9.7195	10.2804	10.0527	10.3331	20
41	9.6670	9.9472	9.7198	10.2801	10.0527	10.3329	19
42	9.6673	9.9471	9.7201	10.2798	10.0528	10.3326	18
43	9.6675	9.9470	9.7204	10.2795	10.0529	10.3324	17
44	9.6677	9.9470	9.7207	10.2792	10.0529	10.3322	16
45	9.6680	9.9469	9.7210	10.2789	10.0530	10.3319	15
46	9.6682	9.9468	9.7213	10.2786	10.0531	10.3317	14
47	9.6685	9.9468	9.7217	10.2782	10.0531	10.3314	13
48	9.6687	9.9467	9.7220	10.2779	10.0532	10.3312	12
49	9.6689	9.9466	9.7223	10.2776	10.0533	10.3310	11
50	9.6692	9.9466	9.7226	10.2773	10.0533	10.3307	10
51	9.6694	9.9465	9.7229	10.2770	10.0534	10.3305	9
52	9.6697	9.9464	9.7232	10.2767	10.0535	10.3302	8
53	9.6699	9.9464	9.7235	10.2764	10.0535	10.3300	7
54	9.6701	9.9463	9.7238	10.2761	10.0536	10.3298	6
55	9.6704	9.9462	9.7241	10.2758	10.0537	10.3295	5
56	9.6706	9.9462	9.7244	10.2755	10.0537	10.3293	4
57	9.6708	9.9461	9.7247	10.2752	10.0538	10.3291	3
58	9.6711	9.9460	9.7250	10.2749	10.0539	10.3288	2
59	9.6713	9.9460	9.7253	10.2746	10.0539	10.3286	1
60	9.6716	9.9459	9.7256	10.2743	10.0540	10.3283	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

117°. Degrees 62.

28 Degrees. 151°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-ſec.* 0. *Co-ar.*	Min.
0	9.6716	9.9459	9.7256	10.2743	10.0540	10.3283	60
1	9.6718	9.9458	9.7259	10.2740	10.0541	10.3281	59
2	9.6720	9.9458	9.7262	10.2737	10.0542	10.3279	58
3	9.6723	9.9457	9.7265	10.2734	10.0542	10.3276	57
4	9.6725	9.9456	9.7268	10.2731	10.0543	10.3274	56
5	9.6727	9.9455	9.7271	10.2728	10.0544	10.3272	55
6	9.6730	9.9455	9.7275	10.2724	10.0544	10.3269	54
7	9.6732	9.9454	9.7278	10.2721	10.0545	10.3267	53
8	9.6735	9.9453	9.7281	10.2718	10.0546	10.3264	52
9	9.6737	9.9453	9.7284	10.2715	10.0546	10.3262	51
10	9.6739	9.9452	9.7287	10.2712	10.0547	10.3260	50
11	9.6742	9.9451	9.7290	10.2709	10.0548	10.3257	49
12	9.6744	9.9451	9.7293	10.2706	10.0548	10.3255	48
13	9.6746	9.9450	9.7296	10.2703	10.0549	10.3253	47
14	9.6749	9.9449	9.7299	10.2700	10.0550	10.3250	46
15	9.6751	9.9449	9.7302	10.2697	10.0550	10.3248	45
16	9.6753	9.9448	9.7305	10.2694	10.0551	10.3246	44
17	9.6756	9.9447	9.7308	10.2691	10.0552	10.3243	43
18	9.6758	9.9447	9.7311	10.2688	10.0552	10.3241	42
19	9.6760	9.9446	9.7314	10.2685	10.0553	10.3239	41
20	9.6763	9.9445	9.7317	10.2682	10.0554	10.3236	40
21	9.6765	9.9445	9.7320	10.2679	10.0554	10.3234	39
22	9.6767	9.9444	9.7323	10.2676	10.0555	10.3232	38
23	9.6770	9.9443	9.7326	10.2673	10.0556	10.3229	37
24	9.6772	9.9443	9.7329	10.2670	10.0556	10.3227	36
25	9.6774	9.9442	9.7332	10.2667	10.0557	10.3225	35
26	9.6777	9.9441	9.7335	10.2664	10.0558	10.3222	34
27	9.6779	9.9441	9.7338	10.2661	10.0558	10.3220	33
28	9.6781	9.9440	9.7341	10.2658	10.0559	10.3218	32
29	9.6784	9.9439	9.7344	10.2655	10.0560	10.3215	31
30	9.6786	9.9438	9.7347	10.2652	10.0561	10.3213	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-ſec.* 0. *Co-ar.*	Secant.	Min.

118°. Degrees 61.

28 Degrees. 151°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.6786	9.9438	9.7347	10.2652	10.0561	10.3213	30
31	9.6788	9.9438	9.7350	10.2649	10.0561	10.3211	29
32	9.6791	9.9437	9.7353	10.2646	10.0562	10.3208	28
33	9.6793	9.9436	9.7356	10.2643	10.0563	10.3206	27
34	9.6795	9.9436	9.7359	10.2640	10.0563	10.3204	26
35	9.6798	9.9435	9.7362	10.2637	10.0564	10.3201	25
36	9.6800	9.9434	9.7365	10.2634	10.0565	10.3199	24
37	9.6802	9.9434	9.7368	10.2631	10.0565	10.3197	23
38	9.6805	9.9433	9.7371	10.2628	10.0566	10.3194	22
39	9.6807	9.9432	9.7374	10.2625	10.0567	10.3192	21
40	9.6809	9.9432	9.7377	10.2622	10.0567	10.3190	20
41	9.6812	9.9431	9.7380	10.2619	10.0568	10.3187	19
42	9.6814	9.9430	9.7383	10.2616	10.0569	10.3185	18
43	9.6816	9.9430	9.7386	10.2613	10.0569	10.3183	17
44	9.6819	9.9429	9.7389	10.2610	10.0570	10.3180	16
45	9.6821	9.9428	9.7392	10.2607	10.0571	10.3178	15
46	9.6823	9.9427	9.7395	10.2604	10.0572	10.3176	14
47	9.6825	9.9427	9.7398	10.2601	10.0572	10.3174	13
48	9.6828	9.9426	9.7401	10.2598	10.0573	10.3171	12
49	9.6830	9.9425	9.7404	10.2595	10.0574	10.3169	11
50	9.6832	9.9425	9.7407	10.2592	10.0574	10.3167	10
51	9.6835	9.9424	9.7410	10.2589	10.0575	10.3164	9
52	9.6837	9.9423	9.7413	10.2586	10.0576	10.3162	8
53	9.6839	9.9423	9.7416	10.2583	10.0576	10.3160	7
54	9.6842	9.9422	9.7419	10.2580	10.0577	10.3157	6
55	9.6844	9.9421	9.7422	10.2577	10.0578	10.3155	5
56	9.6846	9.9420	9.7425	10.2574	10.0579	10.3153	4
57	9.6848	9.9420	9.7428	10.2571	10.0579	10.3151	3
58	9.6851	9.9419	9.7431	10.2568	10.0580	10.3148	2
59	9.6853	9.9418	9.7434	10.2565	10.0581	10.3146	1
60	9.6855	9.9418	9.7437	10.2562	10.0581	10.3144	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

118°. Degrees 61.

29 Degrees. 150°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10 *Co-sec.* 2 *Co-ar.*	Min.
0	9.6855	9.9418	9.7437	10.2562	10.0581	10.3144	60
1	9.6857	9.9417	9.7440	10.2559	10.0582	10.3142	59
2	9.6860	9.9416	9.7443	10.2556	10.0583	10.3139	58
3	9.6862	9.9416	9.7446	10.2553	10.0583	10.3137	57
4	9.6864	9.9415	9.7449	10.2550	10.0584	10.3135	56
5	9.6867	9.9414	9.7452	10.2547	10.0585	10.3132	55
6	9.6869	9.9413	9.7455	10.2544	10.0586	10.3130	54
7	9.6871	9.9413	9.7458	10.2541	10.0586	10.3128	53
8	9.6873	9.9412	9.7461	10.2538	10.0587	10.3126	52
9	9.6876	9.9411	9.7464	10.2535	10.0588	10.3123	51
10	9.6878	9.9411	9.7467	10.2532	10.0588	10.3121	50
11	9.6880	9.9410	9.7470	10.2529	10.0589	10.3119	49
12	9.6882	9.9409	9.7473	10.2526	10.0590	10.3117	48
13	9.6885	9.9409	9.7476	10.2523	10.0590	10.3114	47
14	9.6887	9.9408	9.7479	10.2520	10.0591	10.3112	46
15	9.6889	9.9407	9.7482	10.2517	10.0592	10.3110	45
16	9.6891	9.9406	9.7485	10.2514	10.0593	10.3108	44
17	9.6894	9.9406	9.7488	10.2511	10.0593	10.3105	43
18	9.6896	9.9405	9.7490	10.2509	10.0594	10.3103	42
19	9.6898	9.9404	9.7493	10.2506	10.0595	10.3101	41
20	9.6900	9.9404	9.7496	10.2503	10.0595	10.3099	40
21	9.6903	9.9403	9.7499	10.2500	10.0596	10.3096	39
22	9.6905	9.9402	9.7502	10.2497	10.0597	10.3094	38
23	9.6907	9.9401	9.7505	10.2494	10.0598	10.3092	37
24	9.6909	9.9401	9.7508	10.2491	10.0598	10.3090	36
25	9.6912	9.9400	9.7511	10.2488	10.0599	10.3087	35
26	9.6914	9.9399	9.7514	10.2485	10.0600	10.3085	34
27	9.6916	9.9399	9.7517	10.2482	10.0600	10.3083	33
28	9.6918	9.9398	9.7520	10.2479	10.0601	10.3081	32
29	9.6921	9.9397	9.7523	10.2476	10.0602	10.3078	31
30	9.6923	9.9396	9.7526	10.2473	10.0603	10.3076	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

119°. Degrees 60.

29 Degrees. 150°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co.ar.*	Min.
30	9.6923	9.9396	9.7526	10.2473	10.0603	10.3076	30
31	9.6925	9.9396	9.7529	10.2470	10.0603	10.3074	29
32	9.6927	9.9395	9.7532	10.2467	10.0604	10.3072	28
33	9.6930	9.9394	9.7535	10.2464	10.0605	10.3069	27
34	9.6932	9.9394	9.7538	10.2461	10.0605	10.3067	26
35	9.6934	9.9393	9.7541	10.2458	10.0606	10.3065	25
36	9.6936	9.9392	9.7544	10.2455	10.0607	10.3063	24
37	9.6938	9.9391	9.7547	10.2452	10.0608	10.3061	23
38	9.6941	9.9391	9.7549	10.2450	10.0608	10.3058	22
39	9.6943	9.9390	9.7552	10.2447	10.0609	10.3056	21
40	9.6945	9.9389	9.7555	10.2444	10.0610	10.3054	20
41	9.6947	9.9389	9.7558	10.2441	10.0610	10.3052	19
42	9.6950	9.9388	9.7561	10.2438	10.0611	10.3049	18
43	9.6952	9.9387	9.7564	10.2435	10.0612	10.3047	17
44	9.6954	9.9386	9.7567	10.2432	10.0613	10.3045	16
45	9.6956	9.9386	9.7570	10.2429	10.0613	10.3043	15
46	9.6958	9.9385	9.7573	10.2426	10.0614	10.3041	14
47	9.6961	9.9384	9.7576	10.2423	10.0615	10.3038	13
48	9.6963	9.9384	9.7579	10.2420	10.0615	10.3036	12
49	9.6965	9.9383	9.7582	10.2417	10.0616	10.3034	11
50	9.6967	9.9382	9.7585	10.2414	10.0617	10.3032	10
51	9.6969	9.9381	9.7588	10.2411	10.0618	10.3030	9
52	9.6972	9.9381	9.7591	10.2408	10.0618	10.3027	8
53	9.6974	9.9380	9.7593	10.2406	10.0619	10.3025	7
54	9.6976	9.9379	9.7596	10.2403	10.0620	10.3023	6
55	9.6978	9.9378	9.7599	10.2400	10.0621	10.3021	5
56	9.6980	9.9378	9.7602	10.2397	10.0621	10.3019	4
57	9.6983	9.9377	9.7605	10.2394	10.0622	10.3016	3
58	9.6985	9.9376	9.7608	10.2391	10.0623	10.3014	2
59	9.6987	9.9376	9.7611	10.2388	10.0623	10.3012	1
60	9.6989	9.9375	9.7614	10.2385	10.0624	10.3010	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co ar.*	Secant.	Min.

119°. Degrees 60.

30 Degrees 149°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.6989	9.9375	9.7614	10.2385	10.0624	10.3010	60
1	9.6991	9.9374	9.7617	10.2382	10.0625	10.3008	59
2	9.6994	9.9373	9.7620	10.2379	10.0626	10.3005	58
3	9.6996	9.9373	9.7623	10.2376	10.0626	10.3003	57
4	9.6998	9.9372	9.7626	10.2373	10.0627	10.3001	56
5	9.7000	9.9371	9.7628	10.2371	10.0628	10.2999	55
6	9.7002	9.9370	9.7631	10.2368	10.0629	10.2997	54
7	9.7004	9.9370	9.7634	10.2365	10.0629	10.2995	53
8	9.7007	9.9369	9.7637	10.2362	10.0630	10.2992	52
9	9.7009	9.9368	9.7640	10.2359	10.0631	10.2990	51
10	9.7011	9.9367	9.7643	10.2356	10.0632	10.2988	50
11	9.7013	9.9367	9.7646	10.2353	10 0632	10.2986	49
12	9 7015	9.9366	9.7649	10.2350	10.0633	10.2984	48
13	9.7018	9.9365	9.7652	10.2347	10.0634	10.2981	47
14	9.7020	9.9365	9.7655	10.2344	10.0634	10.2979	46
15	9.7022	9.9364	9.7658	10.2341	10.0635	10.2977	45
16	9.7024	9.9363	9.7660	10.2339	10.0636	10.2975	44
17	9.7026	9.9362	9.7663	10.2336	10.0637	10.2973	43
18	9 7028	9.9362	9.7666	10.2333	10.0637	10.2971	42
19	9.7031	9.9361	9.7669	10.2330	10.0638	10.2968	41
20	9.7033	9.9360	9.7672	10.2327	10.0639	10.2966	40
21	9.7035	9.9359	9.7675	10.2324	10.0640	10.2964	39
22	9.7037	9 9359	9.7678	10.2321	10.0640	10.2962	38
23	9.7039	9.9358	9.7681	10.2318	10.0641	10.2960	37
24	9.7041	9.9357	9.7684	10.2315	10.0642	10.2958	36
25	9.7043	9.9356	9.7687	10.2312	10.0643	10.2956	35
26	9.7046	9.9356	9.7689	10.2310	10.0643	10.2953	34
27	9 7048	9.9355	9.7692	10.2307	10.0644	10.2951	33
28	9.7050	9.9354	9.7695	10.2304	10.0645	10.2949	32
29	9.7052	9.9353	9.7698	10.2301	10.0646	10.2947	31
30	9.7054	9.9353	9.7701	10.2298	10.0646	10.2945	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

120°. Degrees 59.

30 Degrees. 149°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.7054	9.9353	9.7701	10.2298	10.0646	10.2945	30
31	9.7056	9.9352	9.7704	10.2295	10.0647	10.2943	29
32	9.7058	9.9351	9.7707	10.2292	10.0648	10.2941	28
33	9.7061	9.9350	9.7710	10.2289	10.0649	10.2938	27
34	9.7063	9.9350	9.7713	10.2286	10.0649	10.2936	26
35	9.7065	9.9349	9.7715	10.2284	10.0650	10.2934	25
36	9.7067	9.9348	9.7718	10.2281	10.0651	10.2932	24
37	9.7069	9.9347	9.7721	10.2278	10.0652	10.2930	23
38	9.7071	9.9347	9.7724	10.2275	10.0652	10.2928	22
39	9.7073	9.9346	9.7727	10 2272	10.0653	10.2926	21
40	9.7076	9.9345	9.7730	10.2269	10.0654	10 2923	20
41	9.7078	9.9344	9.7733	10.2266	10.0655	10.2921	19
42	9.7080	9.9344	9.7736	10.2263	10.0655	10.2919	18
43	9.7082	9.9343	9.7738	10.2261	10.0656	10.2917	17
44	9.7084	9.9342	9.7741	10.2258	10.0657	10.2915	16
45	9.7086	9.9341	9.7744	10.2255	10.0658	10.2913	15
46	9.7088	9 9341	9.7747	10 2252	10.0658	10.2911	14
47	9.7090	9.9340	9.7750	10.2249	10.0659	10 2909	13
48	9 7093	9.9339	9.7753	10.2246	10.0660	10 2906	12
49	9.7095	9.9338	9.7756	10.2243	10.0661	10.2904	11
50	9.7097	9.9338	9.7759	10.2240	10.0661	10.2902	10
51	9.7099	9.9337	9.7761	10.2238	10.0662	10.2900	9
52	9.7101	9.9336	9.7764	10.2235	10.0663	10.2898	8
53	9.7103	9.9335	9.7767	10.2232	10.0664	10.2896	7
54	9.7105	9.9335	9.7770	10.2229	10.0664	10.2894	6
55	9.7107	9.9334	9.7773	10.2226	10.0665	10.2892	5
56	9.7109	9 9333	9.7776	10.2223	10.0666	10.2890	4
57	9 7112	9.9332	9.7779	10.2220	10.0667	10.2887	3
58	9.7114	9.9332	9.7782	10.2217	10.0667	10.2885	2
59	9.7116	9.9331	9.7784	10.2215	10.0668	10.2883	1
60	9.7118	9.9330	9.7787	10.2212	10.0669	10.2881	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

120°. Degrees 59.

31 Degrees. 148°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant. 10. *Co-fec.* 0. *Co-ar.*		Min.
0	9.7118	9.9330	9.7787	10.2212	10.0669	10.2881	60
1	9.7120	9.9329	9.7790	10.2209	10 0670	10.2879	59
2	9.7122	9.9329	9.7793	10.2206	10.0670	10.2877	58
3	9.7124	9.9328	9.7796	10.2203	10.0671	10.2875	57
4	9.7126	9.9327	9.7799	10.2200	10.0672	10.2873	56
5	9.7128	9.9326	9.7802	10.2197	10.0673	10.2871	55
6	9.7130	9.9326	9.7804	10.2195	10.0673	10.2869	54
7	9.7133	9.9325	9.7807	10.2192	10.0674	10.2866	53
8	9.7135	9.9324	9.7810	10.2189	10.0675	10.2864	52
9	9.7137	9.9323	9.7813	10.2186	10.0676	10.2862	51
10	9.7139	9.9323	9.7816	10 2183	10.0676	10.2860	50
11	9.7141	9.9322	9.7819	10.2180	10.0677	10.2858	49
12	9.7143	9.9321	9.7822	10.2177	10.0678	10.2856	48
13	9.7145	9.9320	9.7824	10.2175	10.0679	10.2854	47
14	9.7147	9.9319	9.7827	10.2172	10.0680	10.2852	46
15	9.7149	9.9319	9.7830	10.2169	10.0680	10.2850	45
16	9.7151	9.9318	9.7833	10.2166	10.0681	10.2848	44
17	9.7153	9.9317	9.7836	10.2163	10,0682	10.2846	43
18	9.7156	9.9316	9.7839	10.2160	10.0683	10.2843	42
19	9.7158	9.9316	9.7841	10.2158	10.0683	10.2841	41
20	9.7160	9.9315	9.7844	10.2155	10.0684	10.2839	40
21	9.7162	9.9314	9.7847	10.2152	10.0685	10.2837	39
22	9.7164	9.9313	9.7850	10.2149	10.0686	10.2835	38
23	9.7166	9.9313	9.7853	10.2146	10.0686	10.2833	37
24	9.7168	9.9312	9.7856	10.2143	10.0687	10.2831	36
25	9.7170	9.9311	9.7859	10.2141	10.0688	10.2829	35
26	9.7172	9.9310	9.7861	10.2138	10.0689	10.2827	34
27	9.7174	9.9309	9.7864	10.2135	10.0690	10.2825	33
28	9.7176	9.9309	9.7867	10.2132	10.0690	10.2820	32
29	9.7178	9.9308	9.7870	10.2129	10.0691	10.2821	31
30	9.7180	9.9307	9.7873	10.2126	10.0692	10.2819	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

121°. Degrees 58.

31 Degrees. 148°

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant,	10 *Co-fec.* 0. *Co-ar.*	Min.
30	9.7180	9.9307	9.7873	10.2126	10.0692	10.2819	30
31	9.7182	9.9306	9.7876	10.2123	10.0693	10.2817	29
32	9.7184	9.9306	9.7878	10.2121	10.0693	10.2815	28
33	9.7187	9.9305	9.7881	10.2118	10.0694	10.2812	27
34	9.7189	9.9304	9.7884	10.2115	10.0695	10.2810	26
35	9.7191	9.9303	9.7887	10.2112	10.0696	10.2808	25
36	9.7193	9.9303	9.7890	10.2109	10.0697	10.2806	24
37	9.7195	9.9302	9.7893	10.2106	10.0697	10.2804	23
38	9.7197	9.9301	9.7895	10.2104	10.0698	10.2802	22
39	9.7199	9.9300	9.7898	10.2101	10.0699	10.2800	21
40	9.7201	9.9299	9.7901	10.2098	10.0700	10.2798	20
41	9.7203	9.9299	9.7904	10.2095	10.0700	10.2796	19
42	9.7205	9.9298	9.7907	10.2092	10.0701	10.2794	18
43	9.7207	9.9297	9.7909	10.2090	10.0702	10.2792	17
44	9.7209	9.9296	9.7912	10.2087	10.0703	10.2790	16
45	9.7211	9.9295	9.7915	10.2084	10.0704	10.2788	15
46	9.7213	9.9295	9.7918	10.2081	10.0704	10.2786	14
47	9.7215	9.9294	9.7921	10.2078	10.0705	10.2784	13
48	9.7217	9.9293	9.7924	10.2075	10.0706	10.2782	12
49	9.7219	9.9292	9.7926	10.2073	10.0707	10.2780	11
50	9.7221	9.9292	9.7929	10.2070	10.0707	10.2778	10
51	9.7223	9.9291	9.7932	10.2067	10.0708	10.2776	9
52	9.7225	9.9290	9.7935	10.2064	10.0709	10.2774	8
53	9.7227	9.9289	9.7938	10.2061	10.0710	10.2772	7
54	9.7229	9.9288	9.7941	10.2058	10.0711	10.2770	6
55	9.7231	9.9288	9.7943	10.2056	10.0711	10.2768	5
56	9.7234	9.9287	9.7946	10.2053	10.0712	10.2766	4
57	9.7236	9.9286	9.7949	10.2050	10.0713	10.2763	3
58	9.7238	9.9285	9.7952	10.2047	10.0714	10.2761	2
59	9.7240	9.9284	9.7955	10.2044	10.0715	10.2759	1
60	9.7242	9.9284	9.7957	10.2042	10.0715	10.2757	0
Min.	*Co-fine.*	Sine,	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

121°. Degrees 58.

32 Degrees. 147°.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. & Co-ar.	Min.
0	9.7242	9.9284	9.7957	10.2042	10.0715	10.2757	60
1	9.7244	9.9283	9.7960	10.2039	10.0716	10.2755	59
2	9.7246	9.9282	9.7963	10.2036	10.0717	10.2753	58
3	9.7248	9.9281	9.7966	10.2033	10.0718	10.2751	57
4	9.7250	9.9281	9.7969	10.2030	10.0718	10.2749	56
5	9.7252	9.9280	9.7971	10.2028	10.0719	10.2747	55
6	9.7254	9.9279	9.7974	10.2025	10.0720	10.2745	54
7	9.7256	9.9278	9.7977	10.2022	10.0721	10.2743	53
8	9.7258	9.9277	9.7980	10.2019	10.0722	10.2741	52
9	9.7260	9.9277	9.7983	10.2016	10.0722	10.2739	51
10	9.7262	9.9276	9.7985	10.2014	10.0723	10.2737	50
11	9.7264	9.9275	9.7988	10.2011	10.0724	10.2735	49
12	9.7266	9.9274	9.7991	10.2008	10.0725	10.2733	48
13	9.7268	9.9273	9.7994	10.2005	10.0726	10.2731	47
14	9.7270	9.9273	9.7997	10.2002	10.0726	10.2729	46
15	9.7272	9.9272	9.7999	10.2000	10.0727	10.2727	45
16	9.7274	9.9271	9.8002	10.1997	10.0728	10.2725	44
17	9.7276	9.9270	9.8005	10.1994	10.0729	10.2723	43
18	9.7278	9.9269	9.8008	10.1991	10.0730	10.2721	42
19	9.7280	9.9269	9.8011	10.1988	10.0730	10.2719	41
20	9.7282	9.9268	9.8013	10.1986	10.0731	10.2717	40
21	9.7284	9.9267	9.8016	10.1983	10.0732	10.2715	39
22	9.7286	9.9266	9.8019	10.1980	10.0733	10.2713	38
23	9.7288	9.9265	9.8022	10.1977	10.0734	10.2711	37
24	9.7290	9.9265	9.8025	10.1974	10.0734	10.2709	36
25	9.7292	9.9264	9.8027	10.1972	10.0735	10.2707	35
26	9.7294	9.9263	9.8030	10.1969	10.0736	10.2705	34
27	9.7296	9.9262	9.8033	10.1966	10.0737	10.2703	33
28	9.7298	9.9261	9.8036	10.1963	10.0738	10.2701	32
29	9.7300	9.9261	9.8039	10.1960	10.0738	10.2699	31
30	9.7302	9.9260	9.8041	10.1958	10.0739	10.2697	30
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. & Co-ar.	Secant.	Min.

122°. Degrees 57

32 Degrees. 147°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant. 10.	*Co-fec.* 0. *Co-ar.*	Min.
30	9.7302	9.9260	9.8041	10.1958	10.0739	10.2697	30
31	9.7304	9.9259	9.8044	10.1955	10.0740	10.2695	29
32	9.7306	9.9258	9.8047	10.1952	10.0741	10.2693	28
33	9.7308	9.9257	9.8050	10.1949	10.0742	10.2691	27
34	9.7310	9.9257	9.8053	10.1946	10.0742	10.2689	26
35	9.7312	9.9256	9.8055	10.1944	10.0743	10.2687	25
36	9.7314	9.9255	9.8058	10.1941	10.0744	10.2685	24
37	9.7316	9.9254	9.8061	10.1938	10.0745	10.2683	23
38	9.7317	9.9253	9.8064	10.1935	10.0746	10.2682	22
39	9.7319	9.9253	9.8066	10.1933	10.0746	10.2680	21
40	9.7321	9.9252	9.8069	10.1930	10.0747	10.2678	20
41	9.7323	9.9251	9.8072	10.1927	10.0748	10.2676	19
42	9.7325	9.9250	9.8075	10.1924	10.0749	10.2674	18
43	9.7327	9.9249	9.8078	10.1921	10.0750	10.2672	17
44	9.7329	9.9248	9.8080	10.1919	10.0751	10.2670	16
45	9.7331	9.9248	9.8083	10.1916	10.0751	10.2668	15
46	9.7333	9.9247	9.8086	10.1913	10.0752	10.2666	14
47	9.7335	9.9246	9.8089	10.1910	10.0753	10.2664	13
48	9.7337	9.9245	9.8091	10.1908	10.0754	10.2662	12
49	9.7339	9.9244	9.8094	10.1905	10.0755	10.2660	11
50	9.7341	9.9244	9.8097	10.1902	10.0755	10.2658	10
51	9.7343	9.9243	9.8100	10.1899	10.0756	10.2656	9
52	9.7345	9.9242	9.8103	10.1896	10.0757	10.2654	8
53	9.7347	9.9241	9.8105	10.1894	10.0758	10.2652	7
54	9.7349	9.9240	9.8105	10.1891	10.0759	10.2650	6
55	9.7351	9.9240	9.8111	10.1888	10.0759	10.2648	5
56	9.7353	9.9239	9.8114	10.1885	10.0760	10.2646	4
57	9.7355	9.9238	9.8116	10.1883	10.0761	10.2644	3
58	9.7357	9.9237	9.8119	10.1880	10.0762	10.2642	2
59	9.7359	9.9236	9.8122	10.1877	10.0763	10.2640	1
60	9.7361	9.9235	9.8125	10.1874	10.0764	10.2638	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

122°. Degrees 57.

33 Degrees. 146°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.7361	9.9235	9.8125	10.1874	10.0764	10.2638	60
1	9.7363	9.9235	9.8127	10.1872	10.0764	10.2636	59
2	9.7364	9.9234	9.8130	10.1869	10.0765	10.2635	58
3	9.7366	9.9233	9.8133	10.1866	10.0766	10.2633	57
4	9.7368	9.9232	9.8136	10.1863	10.0767	10.2631	56
5	9.7370	9.9231	9.8138	10.1861	10.0768	10.2629	55
6	9.7372	9.9230	9.8141	10.1858	10.0769	10.2627	54
7	9.7374	9.9230	9.8144	10.1855	10.0769	10.2625	53
8	9.7376	9.9229	9.8147	10.1852	10.0770	10.2623	52
9	9.7378	9.9228	9.8150	10.1849	10.0771	10.2621	51
10	9.7380	9.9227	9.8152	10.1847	10.0772	10.2619	50
11	9.7382	9.9226	9,8155	10.1844	10.0773	10.2617	49
12	9.7384	9.9226	9.8158	10.1841	10.0773	10.2615	48
13	9.7386	9.9225	9.8161	10.1838	10.0774	10.2613	47
14	9.7388	9.9224	9.8163	10.1836	10.0775	10.2611	46
15	9.7390	9.9223	9.8166	10.1833	10.0776	10.2609	45
16	9.7392	9.9222	9.8169	10.1830	10.0777	10.2607	44
17	9.7393	9.9221	9.8172	10.1827	10.0778	10.2606	43
18	9.7395	9.9221	9.8174	10.1825	10.0778	10.2604	42
19	9.7397	9.9220	9.8177	10.1822	10.0779	10.2602	41
20	9.7399	9.9219	9.8180	10.1819	10.0780	10.2600	40
21	9.7401	9.9218	9.8183	10.1816	10.0781	10.2598	39
22	9.7403	9.9217	9.8185	10.1814	10.0782	10.2596	38
23	9.7405	9.9216	9.8188	10.1811	10,0783	10.2594	37
24	9.7407	9.9216	9.8191	10.1808	10.0783	10.2592	36
25	9 7409	9.9215	9.8194	10.1805	10.0784	10.2590	35
26	9.7411	9.9214	9.8196	10.1803	10.0785	10.2588	34
27	9.7413	9.9213	9.8199	10.1800	10.0786	10.2586	33
28	9.7415	9.9212	9.8202	10.1797	10.0787	10.2584	32
29	9.7416	9.9211	9.8205	10.1794	10.0788	10.2583	31
30	9.7418	9.9211	9.8207	10.1792	10.0788	10.2581	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

123°. Degrees 56.

33 Degrees. 146°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.7418	9.9211	9.8207	10.1792	10.0788	10.2581	30
31	9.7420	9.9210	9.8210	10.1789	10.0789	10.2579	29
32	9.7422	9.9209	9.8213	10.1786	10.0790	10.2577	28
33	9.7424	9.9208	9.8216	10.1783	10.0791	10.2575	27
34	9.7426	9.9207	9.8218	10.1781	10.0792	10.2573	26
35	9.7428	9.9206	9.8221	10.1778	10.0793	10.2571	25
36	9.7430	9.9206	9.8224	10.1775	10.0793	10.2569	24
37	9.7432	9.9205	9.8227	10.1772	10.0794	10.2567	23
38	9.7434	9.9204	9.8229	10.1770	10.0795	10.2565	22
39	9.7436	9.9203	9.8232	10.1767	10.0796	10.2563	21
40	9.7437	9.9202	9.8235	10.1764	10.0797	10.2562	20
41	9.7439	9.9201	9.8237	10.1762	10.0798	10.2560	19
42	9.7441	9.9200	9.8240	10.1759	10.0799	10.2558	18
43	9.7443	9.9200	9.8243	10.1756	10.0799	10.2556	17
44	9.7445	9.9199	9.8246	10.1753	10.0800	10.2554	16
45	9.7447	9.9198	9.8248	10.1751	10.0801	10.2552	15
46	9.7449	9.9197	9.8251	10.1748	10.0802	10.2550	14
47	9.7451	9.9196	9.8254	10.1745	10.0803	10.2548	13
48	9.7453	9.9195	9.8257	10.1742	10.0804	10.2546	12
49	9.7454	9.9195	9.8259	10.1740	10.0804	10.2545	11
50	9.7456	9.9194	9.8262	10.1737	10.0805	10.2543	10
51	9.7458	9.9193	9.8265	10.1734	10.0806	10.2541	9
52	9.7460	9.9192	9.8268	10.1731	10.0807	10.2539	8
53	9.7462	9.9191	9.8270	10.1729	10.0808	10.2537	7
54	9.7464	9.9190	9.8273	10.1726	10.0809	10.2535	6
55	9.7466	9.9190	9.8276	10.1723	10.0810	10.2533	5
56	9.7468	9.9189	9.8278	10.1721	10.0810	10.2531	4
57	9.7469	9.9188	9.8281	10.1718	10.0811	10.2530	3
58	9.7471	9.9187	9.8284	10.1715	10.0812	10.2528	2
59	9.7473	9.9186	9.8287	10.1712	10.0813	10.2526	1
60	9.7475	9.9185	9.8289	10.1710	10.0814	10.2524	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

123°. Degrees 56.

34 Degrees.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 0. Co-ar.	Min.
0	9.7475	9.9185	9.8289	10.1710	10.0814	10.2524	60
1	9.7477	9.9184	9.8292	10.1707	10.0815	10.2522	59
2	9.7479	9.9184	9.8295	10.1704	10.0815	10.2520	58
3	9.7481	9.9183	9.8298	10.1701	10.0816	10.2518	57
4	9.7483	9.9182	9.8300	10.1699	10.0817	10.2516	56
5	9.7484	9.9181	9.8303	10.1696	10.0818	10.2515	55
6	9.7486	9.9180	9.8306	10.1693	10.0819	10.2513	54
7	9.7488	9.9179	9.8308	10.1691	10.0820	10.2511	53
8	9.7490	9.9178	9.8311	10.1688	10.0821	10.2509	52
9	9.7492	9.9178	9.8314	10.1685	10.0821	10.2507	51
10	9.7494	9.9177	9.8317	10.1682	10.0822	10.2505	50
11	9.7496	9.9176	9.8319	10.1680	10.0823	10.2503	49
12	9.7498	9.9175	9.8322	10.1677	10.0824	10.2501	48
13	9.7499	9.9174	9.8325	10.1674	10.0825	10.2500	47
14	9.7501	9.9173	9.8327	10.1672	10.0826	10.2498	46
15	9.7503	9.9172	9.8330	10.1669	10.0827	10.2496	45
16	9.7505	9.9172	9.8333	10.1666	10.0827	10.2494	44
17	9.7507	9.9171	9.8336	10.1663	10.0828	10.2492	43
18	9.7509	9.9170	9.8338	10.1661	10.0829	10.2490	42
19	9.7510	9.9169	9.8341	10.1658	10.0830	10.2489	41
20	9.7512	9.9168	9.8344	10.1655	10.0831	10.2487	40
21	9.7514	9.9167	9.8346	10.1653	10.0832	10.2485	39
22	9.7516	9.9166	9.8349	10.1650	10.0833	10.2483	38
23	9.7518	9.9166	9.8352	10.1647	10.0834	10.2481	37
24	9.7520	9.9165	9.8355	10.1644	10.0834	10.2479	36
25	9.7522	9.9164	9.8357	10.1642	10.0835	10.2477	35
26	9.7523	9.9163	9.8360	10.1639	10.0836	10.2476	34
27	9.7525	9.9162	9.8363	10.1636	10.0837	10.2474	33
28	9.7527	9.9161	9.8365	10.1634	10.0838	10.2472	32
29	9.7529	9.9160	9.8368	10.1631	10.0839	10.2470	31
30	9.7531	9.9159	9.8371	10.1628	10.0840	10.2468	30
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

34 Degrees. 145°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.7531	9.9159	9.8371	10.1628	10.0840	10.2468	30
31	9.7533	9.9159	9.8374	10.1625	10.0840	10.2466	29
32	9.7534	9.9158	9.8376	10.1623	10.0841	10.2465	28
33	9.7536	9.9157	9.8379	10.1620	10.0842	10.2463	27
34	9.7538	9.9156	9.8382	10.1617	10.0843	10.2461	26
35	9.7540	9.9155	9.8384	10.1615	10.0844	10.2459	25
36	9.7542	9.9154	9.8387	10.1612	10.0845	10.2457	24
37	9.7544	9.9153	9.8390	10.1609	10.0846	10.2455	23
38	9.7545	9.9152	9.8392	10.1607	10.0847	10.2454	22
39	9.7547	9.9152	9.8395	10.1604	10.0847	10.2452	21
40	9.7549	9.9151	9.8398	10.1601	10.0848	10.2450	20
41	9.7551	9.9150	9.8401	10.1598	10.0849	10.2448	19
42	9.7553	9.9149	9.8403	10.1596	10.0850	10.2446	18
43	9.7555	9.9148	9.8406	10.1593	10.0851	10.2444	17
44	9.7556	9.9147	9.8409	10.1590	10.0852	10.2443	16
45	9.7558	9.9146	9.8411	10.1588	10.0853	10.2441	15
46	9.7560	9.9145	9.8414	10.1585	10.0854	10.2439	14
47	9.7562	9.9145	9.8417	10.1582	10.0854	10.2437	13
48	9.7564	9.9144	9.8419	10.1580	10.0855	10.2435	12
49	9.7566	9.9143	9.8422	10.1577	10.0856	10.2434	11
50	9.7567	9.9142	9.8425	10.1574	10.0857	10.2432	10
51	9.7569	9.9141	9.8428	10.1571	10.0858	10.2430	9
52	9.7571	9.9140	9.8430	10.1569	10.0859	10.2428	8
53	9.7573	9.9139	9.8433	10.1566	10.0860	10.2426	7
54	9.7575	9.9138	9.8436	10.1563	10.0861	10.2424	6
55	9.7576	9.9138	9.8438	10.1561	10.0861	10.2423	5
56	9.7578	9.9137	9.8441	10.1558	10.0862	10.2421	4
57	9.7580	9.9136	9.8444	10.1555	10.0863	10.2419	3
58	9.7582	9.9135	9.8446	10.1553	10.0864	10.2417	2
59	9.7584	9.9134	9.8449	10.1550	10.0865	10.2415	1
60	9.7585	9.9133	9.8452	10.1547	10.0866	10.2414	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

124°. Degrees 55.

35 Degrees. 144°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.7585	9.9133	9.8452	10.1547	10.0866	10.2414	60
1	9.7587	9.9132	9.8454	10.1545	10.0867	10.2412	59
2	9.7589	9.9131	9.8457	10.1542	10.0868	10.2410	58
3	9.7591	9.9130	9.8460	10.1539	10.0869	10.2408	57
4	9.7593	9.9130	9.8463	10.1536	10.0869	10.2406	56
5	9.7594	9.9129	9.8465	10.1534	10.0870	10.2405	55
6	9.7596	9.9128	9.8468	10.1531	10.0871	10.2403	54
7	9.7598	9.9127	9.8471	10.1528	10.0872	10.2401	53
8	9.7600	9.9126	9.8473	10.1526	10.0873	10.2399	52
9	9.7602	9.9125	9.8476	10.1523	10.0874	10.2397	51
10	9.7603	9.9124	9.8479	10.1520	10.0875	10.2396	50
11	9.7605	9.9123	9.8481	10.1518	10.0876	10.2394	49
12	9.7607	9.9122	9.8484	10.1515	10.0877	10.2392	48
13	9.7609	9.9122	9.8487	10.1512	10.0877	10.2390	47
14	9.7611	9.9121	9.8489	10.1510	10.0878	10.2388	46
15	9.7612	9.9120	9.8492	10.1507	10.0879	10.2387	45
16	9.7614	9.9119	9.8495	10.1504	10.0880	10.2385	44
17	9.7616	9.9118	9.8497	10.1502	10.0881	10.2383	43
18	9.7618	9.9117	9.8500	10.1499	10.0882	10.2381	42
19	9.7619	9.9116	9.8503	10.1496	10.0883	10.2380	41
20	9.7621	9.9115	9.8505	10.1494	10.0884	10.2378	40
21	9.7623	9.9114	9.8508	10.1491	10.0885	10.2376	39
22	9.7625	9.9114	9.8511	10.1488	10.0885	10.2374	38
23	9.7627	9.9113	9.8513	10.1486	10.0886	10.2372	37
24	9.7628	9.9112	9.8516	10.1483	10.0887	10.2371	36
25	9.7630	9.9111	9.8519	10.1480	10.0888	10.2369	35
26	9.7632	9.9110	9.8521	10.1478	10.0889	10.2367	34
27	9.7634	9.9109	9.8524	10.1475	10.0890	10.2365	33
28	9.7636	9.9108	9.8527	10.1472	10.0891	10.2364	32
29	9.7637	9.9107	9.8530	10.1469	10.0892	10.2362	31
30	9.7639	9.9106	9.8532	10.1467	10.0893	10.2360	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

125°. Degrees 54.

35 Degrees. 144°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.7639	9.9106	9.8532	10.1467	10.0893	10.2360	30
31	9.7641	9.9105	9.8535	10.1464	10.0894	10.2358	29
32	9.7643	9.9105	9.8538	10.1461	10.0894	10.2356	28
33	9.7644	9.9104	9.8540	10.1459	10.0895	10.2355	27
34	9.7646	9.9103	9.8543	10.1456	10.0896	10.2353	26
35	9.7648	9.9102	9.8546	10.1453	10.0897	10.2351	25
36	9.7650	9.9101	9.8548	10.1451	10.0898	10.2349	24
37	9.7651	9.9100	9.8551	10.1448	10.0899	10.2348	23
38	9.7653	9.9099	9.8554	10.1445	10.0900	10.2346	22
39	9.7655	9.9098	9.8556	10.1443	10.0901	10.2344	21
40	9.7657	9.9097	9.8559	10.1440	10.0902	10.2342	20
41	9.7658	9.9096	9.8562	10.1437	10.0903	10.2341	19
42	9.7660	9.9096	9.8564	10.1435	10.0903	10.2339	18
43	9.7662	9.9095	9.8567	10.1432	10.0904	10.2337	17
44	9.7664	9.9094	9.8570	10.1429	10.0905	10.2335	16
45	9.7665	9.9093	9.8572	10.1427	10.0906	10.2334	15
46	9.7667	9.9092	9.8575	10.1424	10.0907	10.2332	14
47	9.7669	9.9091	9.8578	10.1421	10.0908	10.2330	13
48	9.7671	9.9090	9.8580	10.1419	10.0909	10.2328	12
49	9.7673	9.9089	9.8583	10.1416	10.0910	10.2327	11
50	9.7674	9.9088	9.8586	10.1413	10.0911	10.2325	10
51	9.7676	9.9087	9.8588	10.1411	10.0912	10.2323	9
52	9.7678	9.9086	9.8591	10.1408	10.0913	10.2321	8
53	9.7679	9.9085	9.8594	10.1406	10.0914	10.2320	7
54	9.7681	9.9085	9.8596	10.1403	10.0914	10.2318	6
55	9.7683	9.9084	9.8599	10.1400	10.0915	10.2316	5
56	9.7685	9.9083	9.8601	10.1398	10.0916	10.2314	4
57	9.7686	9.9082	9.8604	10.1395	10.0917	10.2313	3
58	9.7688	9.9081	9.8607	10.1392	10.0918	10.2311	2
59	9.7690	9.9080	9.8609	10.1390	10.0919	10.2309	1
60	9.7692	9.9079	9.8612	10.1387	10.0920	10.2307	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

125°. Degrees 54.

36 Degrees. 143°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.7692	9.9079	9.8612	10.1387	10.0920	10.2307	60
1	9.7693	9.9078	9.8615	10.1384	10.0921	10.2306	59
2	9.7695	9.9077	9.8617	10.1382	10.0922	10.2304	58
3	9.7697	9.9076	9.8620	10.1379	10.0923	10.2302	57
4	9.7699	9.9075	9.8623	10.1376	10.0924	10.2300	56
5	9.7700	9.9074	9.8625	10.1374	10.0925	10.2299	55
6	9.7702	9.9074	9.8628	10.1371	10.0925	10.2297	54
7	9.7704	9.9073	9.8631	10.1368	10.0926	10.2295	53
8	9.7706	9.9072	9.8633	10.1366	10.0927	10.2293	52
9	9.7707	9.9071	9.8636	10.1363	10.0928	10.2292	51
10	9.7709	9.9070	9.8639	10.1360	10.0929	10.2290	50
11	9.7711	9.9069	9.8641	10.1358	10.0930	10.2288	49
12	9.7712	9.9068	9.8644	10.1355	10.0931	10.2287	48
13	9.7714	9.9067	9.8647	10.1352	10.0932	10.2285	47
14	9.7716	9.9066	9.8649	10.1350	10.0933	10.2283	46
15	9.7718	9.9065	9.8652	10.1347	10.0934	10.2281	45
16	9.7719	9.9064	9.8655	10.1344	10.0935	10.2280	44
17	9.7721	9.9063	9.8657	10.1342	10.0936	10.2278	43
18	9.7723	9.9062	9.8660	10.1339	10.0937	10.2276	42
19	9.7725	9.9062	9.8663	10.1337	10.0937	10.2274	41
20	9.7726	9.9061	9.8665	10.1334	10.0938	10.2273	40
21	9.7728	9.9060	9.8668	10.1331	10.0939	10.2271	39
22	9.7730	9.9059	9.8670	10.1329	10.0940	10.2269	38
23	9.7731	9.9058	9.8673	10.1326	10.0941	10.2268	37
24	9.7733	9.9057	9.8676	10.1323	10.0942	10.2266	36
25	9.7735	9.9056	9.8678	10.1321	10.0943	10.2264	35
26	9.7737	9.9055	9.8681	10.1318	10.0944	10.2262	34
27	9.7738	9.9054	9.8684	10.1315	10.0945	10.2261	33
28	9.7749	9.9053	9.8686	10.1313	10.0946	10.2259	32
29	9.7742	9.9052	9.8689	10.1310	10.0947	10.2257	31
30	9.7743	9.9051	9.8692	10.1307	10.0948	10.2256	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

126°. Degrees 53.

36 Degrees. 143

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 0. Co-ar.	Min.
30	9.7743	9.9051	9.8692	10.1307	10.0948	10.2256	30
31	9.7745	9.9050	9.8694	10.1305	10.0949	10.2254	29
32	9.7747	9.9049	9.8697	10.1302	10.0950	10.2252	28
33	9.7748	9.9048	9.8700	10.1299	10.0951	10.2251	27
34	9.7750	9.9048	9.8702	10.1297	10.0951	10.2249	26
35	9.7752	9.9047	9.8705	10.1294	10.0952	10.2247	25
36	9.7754	9.9046	9.8707	10.1292	10.0953	10.2245	24
37	9.7755	9.9045	9.8710	10.1289	10.0954	10.2244	23
38	9.7757	9.9044	9.8713	10.1286	10.0955	10.2242	22
39	9.7759	9.9043	9.8715	10.1284	10.0956	10.2240	21
40	9.7760	9.9042	9.8718	10.1281	10.0957	10.2239	20
41	9.7762	9.9041	9.8721	10.1278	10.0958	10.2237	19
42	9.7764	9.9040	9.8723	10.1276	10.0959	10.2235	18
43	9.7765	9.9039	9.8726	10.1273	10.0960	10.2234	17
44	9.7767	9.9038	9.8729	10.1270	10.0961	10.2232	16
45	9.7769	9.9037	9.8731	10.1268	10.0962	10.2230	15
46	9.7771	9.9036	9.8734	10.1265	10.0963	10.2228	14
47	9.7772	9.9035	9.8736	10.1263	10.0964	10.2227	13
48	9.7774	9.9034	9.8739	10.1260	10.0965	10.2225	12
49	9.7776	9.9033	9.8742	10.1257	10.0966	10.2223	11
50	9.7777	9.9032	9.8744	10.1255	10.0967	10.2222	10
51	9.7779	9.9032	9.8747	10.1252	10.0967	10.2220	9
52	9.7781	9.9031	9.8750	10.1249	10.0968	10.2218	8
53	9.7782	9.9030	9.8752	10.1247	10.0969	10.2217	7
54	9.7784	9.9029	9.8755	10.1244	10.0970	10.2215	6
55	9.7786	9.9028	9.8758	10.1242	10.0971	10.2213	5
56	9.7787	9.9027	9.8760	10.1239	10.0972	10.2212	4
57	9.7789	9.9026	9.8763	10.1236	10.0973	10.2210	3
58	9.7791	9.9025	9.8765	10.1234	10.0974	10.2208	2
59	9.7792	9.9024	9.8768	10.1231	10.0975	10.2207	1
60	9.7794	9.9023	9.8771	10.1228	10.0976	10.2205	0
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

37 Degrees. 142°

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.7794	9.9023	9.8771	10.1228	10.0976	10.2205	60
1	9.7796	9.9022	9.8773	10.1226	10.0977	10.2203	59
2	9.7797	9.9021	9.8776	10.1223	10.0978	10.2202	58
3	9.7799	9.9020	9.8779	10.1220	10.0979	10.2200	57
4	9.7801	9.9019	9.8781	10.1218	10.0980	10.2198	56
5	9.7803	9.9018	9.8784	10.1215	10.0981	10.2197	55
6	9.7804	9.9017	9.8786	10.1213	10.0982	10.2195	54
7	9.7806	9.9016	9.8789	10.1210	10.0983	10.2193	53
8	9.7808	9.9015	9.8792	10.1207	10.0984	10.2191	52
9	9.7809	9.9014	9.8794	10.1205	10.0985	10.2190	51
10	9.7811	9.9013	9.8797	10.1202	10.0986	10.2188	50
11	9.7813	9.9012	9.8800	10.1199	10.0987	10.2186	49
12	9.7814	9.9012	9.8802	10.1197	10.0987	10.2185	48
13	9.7816	9.9011	9.8805	10.1194	10.0988	10.2183	47
14	9.7818	9.9010	9.8807	10.1192	10.0989	10.2182	46
15	9.7819	9.9009	9.8810	10.1189	10.0990	10.2180	45
16	9.7821	9.9008	9.8813	10.1186	10.0991	10.2178	44
17	9.7822	9.9007	9.8815	10.1184	10.0992	10.2177	43
18	9.7824	9.9006	9.8818	10.1181	10.0993	10.2175	42
19	9.7826	9.9005	9.8821	10.1178	10.0994	10.2173	41
20	9.7827	9.9004	9.8823	10.1176	10.0995	10.2172	40
21	9.7829	9.9003	9.8826	10.1173	10.0996	10.2170	39
22	9.7831	9.9002	9.8828	10.1171	10.0997	10.2168	38
23	9.7832	9.9001	9.8831	10.1168	10.0998	10.2167	37
24	9.7834	9.9000	9.8834	10.1165	10.0999	10.2165	36
25	9.7836	9.8999	9.8836	10.1163	10.1000	10.2163	35
26	9.7837	9.8998	9.8839	10.1160	10.1001	10.2162	34
27	9.7839	9.8997	9.8841	10.1158	10.1002	10.2160	33
28	9.7841	9.8996	9.8844	10.1155	10.1003	10.2158	32
29	9.7842	9.8995	9.8847	10.1152	10.1004	10.2157	31
30	9.7844	9.8994	9.8849	10.1150	10.1005	10.2155	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

127°. Degrees 52

37 Degrees. 142°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.7844	9.8994	9.8849	10.1150	10.1005	10.2155	30
31	9.7846	9.8993	9.8852	10.1147	10.1006	10.2153	29
32	9.7847	9.8992	9.8855	10.1144	10.1007	10.2152	28
33	9.7849	9.8991	9.8857	10.1142	10.1008	10.2150	27
34	9.7851	9.8990	9.8860	10.1139	10.1009	10.2148	26
35	9.7852	9.8989	9.8862	10.1137	10.1010	10.2147	25
36	9.7854	9.8988	9.8865	10.1134	10.1011	10.2145	24
37	9.7855	9.8987	9.8868	10.1131	10.1012	10.2144	23
38	9.7857	9.8986	9.8870	10.1129	10.1013	10.2142	22
39	9.7859	9.8985	9.8873	10.1126	10.1014	10.2140	21
40	9.7860	9.8984	9.8875	10.1124	10.1015	10.2139	20
41	9.7862	9.8983	9.8878	10.1121	10.1016	10.2137	19
42	9.7864	9.8982	9.8881	10.1118	10.1017	10.2135	18
43	9.7865	9.8982	9.8883	10.1116	10.1017	10.2134	17
44	9.7867	9.8981	9.8886	10.1113	10.1018	10.2132	16
45	9.7869	9.8980	9.8889	10.1111	10.1019	10.2130	15
46	9.7870	9.8979	9.8891	10.1108	10.1020	10.2129	14
47	9.7872	9.8978	9.8894	10.1105	10.1021	10.2127	13
48	9.7873	9.8977	9.8896	10.1103	10.1022	10.2126	12
49	9.7875	9.8976	9.8899	10.1100	10.1023	10.2124	11
50	9.7877	9.8975	9.8902	10.1097	10.1024	10.2122	10
51	9.7878	9.8974	9.8904	10.1095	10.1025	10.2121	9
52	9.7880	9.8973	9.8907	10.1092	10.1026	10.2119	8
53	9.7882	9.8972	9.8909	10.1090	10.1027	10.2117	7
54	9.7883	9.8971	9.8912	10.1087	10.1028	10.2116	6
55	9.7885	9.8970	9.8915	10.1084	10.1029	10.2114	5
56	9.7886	9.8969	9.8917	10.1082	10.1030	10.2113	4
57	9.7888	9.8968	9.8920	10.1079	10.1031	10.2111	3
58	9.7890	9.8967	9.8922	10.1077	10.1032	10.2109	2
59	9.7891	9.8966	9.8925	10.1074	10.1033	10.2108	1
60	9.7893	9.8965	9.8928	10.1071	10.1034	10.2106	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

127°. Degrees 52.

38 Degrees 141.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 9. Co-ar.	Min.
0	9.7893	9.8965	9.8928	10.1071	10.1034	10.2106	60
1	9.7895	9.8964	9.8930	10.1069	10.1035	10.2104	59
2	9.7896	9.8963	9.8933	10.1066	10.1036	10.2103	58
3	9.7898	9.8962	9.8935	10.1064	10.1037	10.2101	57
4	9.7899	9.8961	9.8938	10.1061	10.1038	10.2100	56
5	9.7901	9.8960	9.8941	10.1058	10.1039	10.2098	55
6	9.7903	9.8959	9.8943	10.1056	10.1040	10.2096	54
7	9.7904	9.8958	9.8946	10.1053	10.1041	10.2095	53
8	9.7906	9.8957	9.8948	10.1051	10.1042	10.2093	52
9	9.7907	9.8956	9.8951	10.1048	10.1043	10.2092	51
10	9.7909	9.8955	9.8954	10.1045	10.1044	10.2090	50
11	9.7911	9.8954	9.8956	10.1043	10.1045	10.2088	49
12	9.7912	9.8953	9.8959	10.1040	10.1046	10.2087	48
13	9.7914	9.8952	9.8961	10.1038	10.1047	10.2085	47
14	9.7915	9.8951	9.8964	10.1035	10.1048	10.2084	46
15	9.7917	9.8950	9.8967	10.1032	10.1049	10.2082	45
16	9.7919	9.8949	9.8969	10.1030	10.1050	10.2080	44
17	9.7920	9.8948	9.8972	10.1027	10.1051	10.2079	43
18	9.7922	9.8947	9.8974	10.1025	10.1052	10.2077	42
19	9.7923	9.8946	9.8977	10.1022	10.1053	10.2076	41
20	9.7925	9.8945	9.8980	10.1019	10.1054	10.2074	40
21	9.7927	9.8944	9.8982	10.1017	10.1055	10.2072	39
22	9.7928	9.8943	9.8985	10.1014	10.1056	10.2071	38
23	9.7930	9.8942	9.8987	10.1012	10.1057	10.2069	37
24	9.7931	9.8941	9.8990	10.1009	10.1058	10.2068	36
25	9.7933	9.8940	9.8993	10.1006	10.1059	10.2066	35
26	9.7935	9.8939	9.8995	10.1004	10.1060	10.2064	34
27	9.7936	9.8938	9.8998	10.1001	10.1061	10.2063	33
28	9.7938	9.8937	9.9000	10.0999	10.1062	10.2061	32
29	9.7939	9.8936	9.9003	10.0996	10.1063	10.2060	31
30	9.7941	9.8935	9.9006	10.0993	10.1064	10.2058	30
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 9. Co-ar.	Secant.	Min.

128°. Degrees 51.

38 Degrees.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10 Co-sec. 0. Co-ar.	Min.
30	9.7941	9.8935	9.9006	10.0993	10.1064	10.2058	30
31	9.7943	9.8934	9.9008	10.0991	10.1065	10.2056	29
32	9.7944	9.8933	9.9011	10.0988	10.1066	10.2055	28
33	9.7946	9.8932	9.9013	10.0986	10.1067	10.2053	27
34	9.7947	9.8931	9.9016	10.0983	10.1068	10.2052	26
35	9.7949	9.8930	9.9019	10.0980	10.1069	10.2050	25
36	9.7951	9.8929	9.9021	10.0978	10.1070	10.2048	24
37	9.7952	9.8928	9.9024	10.0975	10.1071	10.2047	23
38	9.7954	9.8927	9.9026	10.0973	10.1072	10.2045	22
39	9.7955	9.8926	9.9029	10.0970	10.1073	10.2044	21
40	9.7957	9.8925	9.9031	10.0968	10.1074	10.2042	20
41	9.7958	9.8924	9.9034	10.0965	10.1075	10.2041	19
42	9.7960	9.8923	9.9037	10.0962	10.1076	10.2039	18
43	9.7962	9.8922	9.9039	10.0960	10.1077	10.2037	17
44	9.7963	9.8921	9.9042	10.0957	10.1078	10.2036	16
45	9.7965	9.8920	9.9044	10.0955	10.1079	10.2034	15
46	9.7966	9.8919	9.9047	10.0952	10.1080	10.2033	14
47	9.7968	9.8918	9.9050	10.0949	10.1081	10.2031	13
48	9.7969	9.8917	9.9052	10.0947	10.1082	10.2030	12
49	9.7971	9.8916	9.9055	10.0944	10.1083	10.2028	11
50	9.7973	9.8915	9.9057	10.0942	10.1084	10.2026	10
51	9.7974	9.8914	9.9060	10.0939	10.1085	10.2025	9
52	9.7976	9.8913	9.9063	10.0936	10.1086	10.2023	8
53	9.7977	9.8912	9.9065	10.0934	10.1087	10.2022	7
54	9.7979	9.8911	9.9068	10.0931	10.1088	10.2020	6
55	9.7980	9.8910	9.9070	10.0929	10.1089	10.2019	5
56	9.7982	9.8909	9.9073	10.0926	10.1090	10.2017	4
57	9.7984	9.8908	9.9075	10.0924	10.1091	10.2015	3
58	9.7985	9.8907	9.9078	10.0921	10.1092	10.2014	2
59	9.7987	9.8906	9.9081	10.0918	10.1093	10.2012	1
60	9.7988	9.8905	9.9083	10.0916	10.1094	10.2011	0
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

39 Degrees. 140°

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10 Co-sec. 2 Co-ar.	Min.
0	9.7988	9.8905	9.9083	10.0916	10.1094	10.2011	60
1	9.7990	9.8904	9.9086	10.0913	10.1096	10.2009	59
2	9.7991	9.8902	9.9088	10.0911	10.1097	10.2008	58
3	9.7993	9.8901	9.9091	10.0908	10.1098	10.2006	57
4	9.7994	9.8900	9.9094	10.0905	10.1099	10.2005	56
5	9.7996	9.8899	9.9096	10.0903	10.1100	10.2003	55
6	9.7998	9.8898	9.9099	10.0900	10.1101	10.2001	54
7	9.7999	9.8897	9.9101	10.0898	10.1102	10.2000	53
8	9.8001	9.8896	9.9104	10.0895	10.1103	10.1998	52
9	9.8002	9.8895	9.9106	10.0893	10.1104	10.1997	51
10	9.8004	9.8894	9.9109	10.0890	10.1105	10.1995	50
11	9.8005	9.8893	9.9112	10.0887	10.1106	10.1994	49
12	9.8007	9.8892	9.9114	10.0885	10.1107	10.1992	48
13	9.8008	9.8891	9.9117	10.0882	10.1108	10.1991	47
14	9.8010	9.8890	9.9119	10.0880	10.1109	10.1989	46
15	9.8012	9.8889	9.9122	10.0877	10.1110	10.1987	45
16	9.8013	9.8888	9.9124	10.0875	10.1111	10.1986	44
17	9.8015	9.8887	9.9127	10.0872	10.1112	10.1984	43
18	9.8016	9.8886	9.9130	10.0869	10.1113	10.1983	42
19	9.8018	9.8885	9.9132	10.0867	10.1114	10.1981	41
20	9.8019	9.8884	9.9135	10.0864	10.1115	10.1980	40
21	9.8021	9.8883	9.9137	10.0862	10.1116	10.1978	39
22	9.8022	9.8882	9.9140	10.0859	10.1117	10.1977	38
23	9.8024	9.8881	9.9143	10.0856	10.1118	10.1975	37
24	9.8025	9.8880	9.9145	10.0854	10.1119	10.1974	36
25	9.8027	9.8879	9.9148	10.0851	10.1120	10.1972	35
26	9.8028	9.8878	9.9150	10.0849	10.1121	10.1971	34
27	9.8030	9.8877	9.9153	10.0846	10.1122	10.1969	33
28	9.8032	9.8876	9.9155	10.0844	10.1123	10.1967	32
29	9.8033	9.8875	9.9158	10.0841	10.1124	10.1966	31
30	9.8035	9.8874	9.9161	10.0838	10.1125	10.1964	30
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

129°. Degrees 50.

39 Degrees. 140°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.8035	9.8874	9.9161	10.0838	10.1125	10.1964	30
31	9.8036	9.8873	9.9163	10.0836	10.1126	10.1963	29
32	9.8038	9.8871	9.9166	10.0833	10.1128	10.1961	28
33	9.8039	9.8870	9.9168	10.0831	10.1129	10.1960	27
34	9.8041	9.8869	9.9171	10.0828	10.1130	10.1958	26
35	9.8042	9.8868	9.9173	10.0826	10.1131	10.1957	25
36	9.8044	9.8867	9.9176	10.0823	10.1132	10.1955	24
37	9.8045	9.8866	9.9179	10.0820	10.1133	10.1954	23
38	9.8047	9.8865	9.9181	10.0818	10.1134	10.1952	22
39	9.8048	9.8864	9.9184	10.0815	10.1135	10.1951	21
40	9.8050	9.8863	9.9186	10.0813	10.1136	10.1949	20
41	9.8051	9.8862	9.9189	10.0810	10.1137	10.1948	19
42	9.8053	9.8861	9.9191	10.0808	10.1138	10.1946	18
43	9.8054	9.8860	9.9194	10.0805	10.1139	10.1945	17
44	9.8056	9.8859	9.9197	10.0802	10.1140	10.1943	16
45	9.8057	9.8858	9.9199	10.0800	10.1141	10.1942	15
46	9.8059	9.8857	9.9202	10.0797	10.1142	10.1940	14
47	9.8061	9.8856	9.9204	10.0795	10.1143	10.1938	13
48	9.8062	9.8855	9.9207	10.0792	10.1144	10.1937	12
49	9.8064	9.8854	9.9209	10.0790	10.1145	10.1935	11
50	9.8065	9.8853	9.9212	10.0787	10.1146	10.1934	10
51	9.8067	9.8852	9.9215	10.0784	10.1147	10.1932	9
52	9.8068	9.8851	9.9217	10.0782	10.1149	10.1931	8
53	9.8070	9.8849	9.9220	10.0779	10.1150	10.1929	7
54	9.8071	9.8848	9.9222	10.0777	10.1151	10.1928	6
55	9.8073	9.8847	9.9225	10.0774	10.1152	10.1926	5
56	9.8074	9.8846	9.9227	10.0772	10.1153	10.1925	4
57	9.8076	9.8845	9.9230	10.0769	10.1154	10.1923	3
58	9.8077	9.8844	9.9233	10.0767	10.1155	10.1922	2
59	9.8079	9.8843	9.9235	10.0764	10.1156	10.1920	1
60	9.8080	9.8842	9.9238	10.0761	10.1157	10.1919	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

129°. Degrees 50.

40 Degrees. 139°.

M.	Sine.	Co-sine.	Tangent.	Co tang.	Secant.	10. Co-sec. 0. Co-ar.	M.
0	9.8080	9.8842	9.9238	10.0761	10.1157	10.1919	60
1	9.8082	9.8841	9.9240	10.0759	10.1158	10.1917	59
2	9.8083	9.8840	9.9243	10.0756	10.1159	10.1916	58
3	9.8085	9.8839	9.9245	10.0754	10.1160	10.1914	57
4	9.8086	9.8838	9.9248	10.0751	10.1161	10.1913	56
5	9.8088	9.8837	9.9250	10.0749	10.1162	10.1911	55
6	9.8089	9.8836	9.9253	10.0746	10.1163	10.1910	54
7	9.8091	9.8835	9.9256	10.0743	10.1164	10.1908	53
8	9.8092	9.8834	9.9258	10.0741	10.1165	10.1907	52
9	9.8094	9.8832	9.9261	10.0738	10.1167	10.1905	51
10	9.8095	9.8831	9.9263	10.0736	10.1168	10.1904	50
11	9.8097	9.8830	9.9266	10.0733	10.1169	10.1902	49
12	9.8098	9.8829	9.9268	10.0731	10.1170	10.1901	48
13	9.8100	9.8828	9.9271	10.0728	10.1171	10.1899	47
14	9.8101	9.8827	9.9274	10.0725	10.1172	10.1898	46
15	9.8103	9.8826	9.9276	10.0723	10.1173	10.1896	45
16	9.8104	9.8825	9.9279	10.0720	10.1174	10.1895	44
17	9.8106	9.8824	9.9281	10.0718	10.1175	10.1893	43
18	9.8107	9.8823	9.9284	10.0715	10.1176	10.1892	42
19	9.8109	9.8822	9.9286	10.0713	10.1177	10.1890	41
20	9.8110	9.8821	9.9289	10.0710	10.1178	10.1889	40
21	9.8112	9.8820	9.9291	10.0708	10.1179	10.1887	39
22	9.8113	9.8819	9.9294	10.0705	10.1180	10.1886	38
23	9.8115	9.8817	9.9297	10.0702	10.1182	10.1884	37
24	9.8116	9.8816	9.9299	10.0700	10.1183	10.1883	36
25	9.8118	9.8815	9.9302	10.0697	10.1184	10.1881	35
26	9.8119	9.8814	9.9304	10.0695	10.1185	10.1880	34
27	9.8121	9.8813	9.9307	10.0692	10.1186	10.1879	33
28	9.8122	9.8812	9.9309	10.0690	10.1187	10.1877	32
29	9.8123	9.8811	9.9312	10.0687	10.1188	10.1876	31
30	9.8125	9.8810	9.9314	10.0685	10.1189	10.1874	30
M.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	M.

130° Degrees 49.

Co-sines, Co-tangents, & Co-secants.

40 Degrees. 139°.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 0. Co-ar.	Min.
30	9.8125	9.8810	9.9314	10.0685	10.1189	10.1874	30
31	9.8126	9.8809	9.9317	10.0682	10.1190	10.1873	29
32	9.8128	9.8808	9.9320	10.0679	10.1191	10.1871	28
33	9.8129	9.8807	9.9322	10.0677	10.1192	10.1870	27
34	9.8131	9.8806	9.9325	10.0674	10.1193	10.1868	26
35	9.8132	9.8805	9.9327	10.0672	10.1194	10.1867	25
36	9.8134	9.8803	9.9330	10.0669	10.1196	10. 865	24
37	9.8135	9.8802	9.9332	10.0667	10.1197	10.1864	23
38	9.8137	9.8801	9.9335	10.0664	10.1198	10.1862	22
39	9.8138	9.8800	9.9338	10.0662	10.1199	10.1861	21
40	9.8140	9.8799	9.9340	10.0659	10.1200	10.1859	20
41	9.8141	9.8798	9.9343	10.0656	10.1201	10.1858	19
42	9.8143	9.8797	9.9345	10.0654	10.1202	10.1856	18
43	9.8144	9.8796	9.9348	10.0651	10.1203	10.1855	17
44	9.8146	9.8795	9.9350	10.0649	10.1204	10.1853	16
45	9.8147	9.8794	9.9353	10.0646	10.1205	10.1852	15
46	9.8149	9.8793	9.9355	10.0644	10.1206	10.1851	14
47	9.8150	9.8792	9.9358	10.0641	10.1207	10.1849	13
48	9.8151	9.8790	9.9361	10.0639	10.1209	10.1848	12
49	9.8153	9.8789	9.9363	10.0636	10.1210	10.1846	11
50	9.8154	9.8788	9.9366	10.0633	10.1211	10.1845	10
51	9.8156	9.8787	9.9368	10.0631	10.1212	10.1843	9
52	9.8157	9.8786	9.9371	10.0628	10.1213	10.1842	8
53	9.8159	9.8785	9.9373	10.0626	10.1214	10.1840	7
54	9.8160	9.8784	9.9376	10.0623	10.1215	10 1839	6
55	9.8162	9.8783	9.9378	10.0621	10.1216	10.1837	5
56	9.8163	9.8782	9.9381	10.0618	10.1217	10.1836	4
57	9.8165	9.8781	9.9383	10.0616	10.1218	10.1834	3
58	9.8166	9.8779	9.9386	10.0613	10.1220	10.1833	2
59	9.8167	9.8778	9.9389	10.0610	10.1221	10.1832	1
60	9.8169	9.8777	9.9391	10.0608	10.1222	10.1830	0
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 0. Co-ar.	Secant.	Min.

130°. Degrees 49.

41 Degrees. 138°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
0	9.8169	9.8777	9.9391	10.0608	10.1222	10.1830	60
1	9.8170	9.8776	9.9394	10.0605	10.1223	10.1829	59
2	9.8172	9.8775	9.9396	10.0603	10.1224	10.1827	58
3	9.8173	9.8774	9.9399	10.0600	10.1225	10.1826	57
4	9.8175	9.8773	9.9401	10.0598	10.1226	10.1824	56
5	9.8176	9.8772	9.9404	10.0595	10.1227	10.1823	55
6	9.8178	9.8771	9.9406	10.0593	10.1228	10.1821	54
7	9.8179	9.8770	9.9409	10.0590	10.1229	10.1820	53
8	9.8181	9.8768	9.9412	10.0587	10.1231	10.1818	52
9	9.8182	9.8767	9.9414	10.0585	10.1232	10.1817	51
10	9.8183	9.8766	9.9417	10.0582	10.1233	10.1816	50
11	9.8185	9.8765	9.9419	10.0580	10.1234	10.1814	49
12	9.8186	9.8764	9.9422	10.0577	10.1235	10.1813	48
13	9.8188	9.8763	9.9424	10.0575	10.1236	10.1811	47
14	9.8189	9.8762	9.9427	10.0572	10.1237	10.1810	46
15	9.8191	9.8761	9.9429	10.0570	10.1238	10.1808	45
16	9.8192	9.8760	9.9432	10.0567	10.1239	10.1807	44
17	9.8194	9.8759	9.9434	10.0565	10.1240	10.1805	43
18	9.8195	9.8757	9.9437	10.0562	10.1242	10.1804	42
19	9.8196	9.8756	9.9440	10.0559	10.1243	10.1803	41
20	9.8198	9.8755	9.9442	10.0557	10.1244	10.1801	40
21	9.8199	9.8754	9.9445	10.0554	10.1245	10.1800	39
22	9.8201	9.8753	9.9447	10.0552	10.1246	10.1798	38
23	9.8202	9.8752	9.9450	10.0549	10.1247	10.1797	37
24	9.8204	9.8751	9.9452	10.0547	10.1248	10.1795	36
25	9.8205	9.8750	9.9455	10.0544	10.1249	10.1794	35
26	9.8206	9.8749	9.9457	10.0542	10.1250	10.1793	34
27	9.8208	9.8747	9.9460	10.0539	10.1252	10.1791	33
28	9.8209	9.8746	9.9462	10.0537	10.1253	10.1790	32
29	9.8211	9.8745	9.9465	10.0534	10.1254	10.1788	31
30	9.8212	9.8744	9.9468	10.0531	10.1255	10.1787	30
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

131°. Degrees 48°.

41 Degrees. 138

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-sec.* 0. *Co-ar.*	Min.
30	9.8212	9.8744	9.9468	10.0531	10.1255	10.1787	30
31	9.8214	9.8743	9.9470	10.0529	10.1256	10.1785	29
32	9.8215	9.8742	9.9473	10.0526	10.1257	10.1784	28
33	9.8216	9.8741	9.9475	10.0524	10.1258	10.1783	27
34	9.8218	9.8740	9.9478	10.0521	10.1259	10.1781	26
35	9.8219	9.8738	9.9480	10.0519	10.1261	10.1780	25
36	9.8221	9.8737	9.9483	10.0516	10.1262	10.1778	24
37	9.8222	9.8736	9.9485	10.0514	10.1263	10.1777	23
38	9.8224	9.8735	9.9488	10.0511	10.1264	10.1775	22
39	9.8225	9.8734	9.9490	10.0509	10.1265	10.1774	21
40	9.8226	9.8733	9.9493	10.0506	10.1266	10.1773	20
41	9.8228	9.8732	9.9496	10.0503	10.1267	10.1771	19
42	9.8229	9.8731	9.9498	10.0501	10.1268	10.1770	18
43	9.8231	9.8729	9.9501	10.0498	10.1270	10.1768	17
44	9.8232	9.8728	9.9503	10.0496	10.1271	10.1767	16
45	9.8233	9.8727	9.9506	10.0493	10.1272	10.1766	15
46	9.8235	9.8726	9.9508	10.0491	10.1273	10.1764	14
47	9.8236	9.8725	9.9511	10.0488	10.1274	10.1763	13
48	9.8238	9.8724	9.9513	10.0486	10.1275	10.1761	12
49	9.8239	9.8723	9.9516	10.0483	10.1276	10.1760	11
50	9.8241	9.8722	9.9518	10.0481	10.1277	10.1758	10
51	9.8242	9.8720	9.9521	10.0478	10.1279	10.1757	9
52	9.8243	9.8719	9.9524	10.0475	10.1280	10.1756	8
53	9.8245	9.8718	9.9526	10.0473	10.1281	10.1754	7
54	9.8246	9.8717	9.9529	10.0470	10.1282	10.1753	6
55	9.8248	9.8716	9.9531	10.0468	10.1283	10.1751	5
56	9.8249	9.8715	9.9534	10.0465	10.1284	10.1750	4
57	9.8250	9.8714	9.9536	10.0463	10.1285	10.1749	3
58	9.8252	9.8713	9.9539	10.0460	10.1286	10.1747	2
59	9.8253	9.8711	9.9541	10.0458	10.1288	10.1746	1
60	9.8255	9.8710	9.9544	10.0455	10.1289	10.1744	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-sec.* 0. *Co-ar.*	Secant.	Min.

131° Degrees 48.

42 Degrees. 137°.

Min.	Sine.	Co-fine.	Tangent.	Co-tang.	Secant.	10. Co-fec. 0. Co-ar.	Min.
0	9.8255	9.8710	9.9544	10.0455	10.1289	10.1744	60
1	9.8256	9.8709	9.9546	10.0453	10.1290	10.1743	59
2	9.8257	9.8708	9.9549	10.0450	10.1291	10.1742	58
3	9.8259	9.8707	9.9552	10.0448	10.1292	10.1740	57
4	9.8260	9.8706	9.9554	10.0445	10.1293	10.1739	56
5	9.8262	9.8705	9.9557	10.0442	10.1294	10.1737	55
6	9.8263	9.8703	9.9559	10.0440	10.1296	10.1736	54
7	9.8264	9.8702	9.9562	10.0437	10.1297	10.1735	53
8	9.8266	9.8701	9.9564	10.0435	10.1298	10.1733	52
9	9.8267	9.8700	9.9567	10.0432	10.1299	10.1732	51
10	9.8269	9.8699	9.9569	10.0430	10.1300	10.1730	50
11	9.8270	9.8698	9.9572	10.0427	10.1301	10.1729	49
12	9.8271	9.8697	9.9574	10.0425	10.1302	10.1728	48
13	9.8273	9.8695	9.9577	10.0422	10.1304	10.1726	47
14	9.8274	9.8694	9.9579	10.0420	10.1305	10.1725	46
15	9.8276	9.8693	9.9582	10.0417	10.1306	10.1723	45
16	9.8277	9.8692	9.9585	10.0415	10.1307	10.1722	44
17	9.8278	9.8691	9.9587	10.0412	10.1308	10.1721	43
18	9.8280	9.8690	9.9590	10.0409	10.1309	10.1719	42
19	9.8281	9.8689	9.9592	10.0407	10.1311	10.1718	41
20	9.8283	9.8687	9.9595	10.0404	10.1312	10.1716	40
21	9.8284	9.8686	9.9597	10.0402	10.1313	10.1715	39
22	9.8285	9.8685	9.9600	10.0399	10.1314	10.1714	38
23	9.8287	9.8684	9.9602	10.0397	10.1315	10.1712	37
24	9.8288	9.8683	9.9605	10.0394	10.1316	10.1711	36
25	9.8289	9.8682	9.9607	10.0392	10.1317	10.1710	35
26	9.8291	9.8680	9.9610	10.0389	10.1319	10.1708	34
27	9.8292	9.8679	9.9612	10.0387	10.1320	10.1707	33
28	9.8294	9.8678	9.9615	10.0384	10.1321	10.1705	32
29	9.8295	9.8677	9.9617	10.0382	10.1322	10.1704	31
30	9.8296	9.8676	9.9620	10.0379	10.1323	10.1703	30
Min.	Co-fine.	Sine.	Co-tang.	Tangent.	10. Co-fec. 0. Co-ar.	Secant.	Min.

132°. Degrees 47°.

Co-sines, Co-tangents, & Co-secants.

42 Degrees. 137°.

Min.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. & Co-ar.	Min.
30	9.8296	9.8676	9.9620	10.0379	10.1323	10.1703	30
31	9.8298	9.8675	9.9623	10.0376	10.1324	10.1701	29
32	9.8299	9.8673	9.9625	10.0374	10.1326	10.1700	28
33	9.8300	9.8672	9.9628	10.0371	10.1327	10.1699	27
34	9.8302	9.8671	9.9630	10.0369	10.1328	10.1697	26
35	9.8303	9.8670	9.9633	10.0366	10.1329	10.1696	25
36	9.8305	9.8669	9.9635	10.0364	10.1330	10.1694	24
37	9.8306	9.8668	9.9638	10.0361	10.1331	10.1693	23
38	9.8307	9.8667	9.9640	10.0359	10.1332	10.1692	22
39	9.8309	9.8665	9.9643	10.0356	10.1334	10.1691	21
40	9.8310	9.8664	9.9645	10.0354	10.1335	10.1689	20
41	9.8311	9.8663	9.9648	10.0351	10.1336	10.1688	19
42	9.8313	9.8662	9.9650	10.0349	10.1337	10.1686	18
43	9.8314	9.8661	9.9653	10.0346	10.1338	10.1685	17
44	9.8316	9.8660	9.9656	10.0343	10.1339	10.1683	16
45	9.8317	9.8658	9.9658	10.0341	10.1341	10.1682	15
46	9.8318	9.8657	9.9661	10.0338	10.1342	10.1681	14
47	9.8320	9.8656	9.9663	10.0336	10.1343	10.1679	13
48	9.8321	9.8655	9.9666	10.0333	10.1344	10.1678	12
49	9.8322	9.8654	9.9668	10.0331	10.1345	10.1677	11
50	9.8324	9.8653	9.9671	10.0328	10.1346	10.1675	10
51	9.8325	9.8651	9.9673	10.0326	10.1348	10.1674	9
52	9.8326	9.8650	9.9676	10.0323	10.1349	10.1673	8
53	9.8328	9.8649	9.9678	10.0321	10.1350	10.1671	7
54	9.8329	9.8648	9.9681	10.0318	10.1351	10.1670	6
55	9.8331	9.8647	9.9683	10.0316	10.1352	10.1668	5
56	9.8332	9.8645	9.9686	10.0313	10.1354	10.1667	4
57	9.8333	9.8644	9.9688	10.0311	10.1355	10.1666	3
58	9.8335	9.8643	9.9691	10.0308	10.1356	10.1664	2
59	9.8336	9.8642	9.9694	10.0305	10.1357	10.1663	1
60	9.8337	9.8641	9.9696	10.0303	10.1358	10.1662	0
Min.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. & Co-ar.	Secant.	Min.

132°. Degrees 47.

43 Degrees. 136°

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
0	9.8337	9.8641	9.9696	10.0303	10.1358	10.1662	60
1	9.8339	9.8640	9.9699	10.0300	10.1359	10.1660	59
2	9.8340	9.8638	9.9701	10.0298	10.1361	10.1659	58
3	9.8341	9.8637	9.9704	10.0295	10.1362	10.1658	57
4	9.8343	9.8636	9.9706	10.0293	10.1363	10.1656	56
5	9.8344	9.8635	9.9709	10.0290	10.1364	10.1655	55
6	9.8345	9.8634	9.9711	10.0288	10.1365	10.1654	54
7	9.8347	9.8633	9.9714	10.0285	10.1366	10.1652	53
8	9.8348	9.8631	9.9716	10.0283	10.1368	10.1651	52
9	9.8349	9.8630	9.9719	10.0280	10.1369	10.1650	51
10	9.8351	9.8629	9.9721	10.0278	10.1370	10.1648	50
11	9.8352	9.8628	9.9724	10.0275	10.1371	10.1647	49
12	9.8354	9.8627	9.9726	10.0273	10.1372	10.1645	48
13	9.8355	9.8625	9.9729	10.0270	10.1374	10.1644	47
14	9.8356	9.8624	9.9732	10.0267	10.1375	10.1643	46
15	9.8358	9.8623	9.9734	10.0265	10.1376	10.1641	45
16	9.8359	9.8622	9.9737	10.0262	10.1377	10.1640	44
17	9.8360	9.8621	9.9739	10.0260	10.1378	10.1639	43
18	9.8362	9.8619	9.9742	10.0257	10.1380	10.1637	42
19	9.8363	9.8618	9.9744	10.0255	10.1381	10.1636	41
20	9.8364	9.8617	9.9747	10.0252	10.1382	10.1635	40
21	9.8366	9.8616	9.9749	10.0250	10.1383	10.1633	39
22	9.8367	9.8615	9.9752	10.0247	10.1384	10.1632	38
23	9.8368	9.8614	9.9754	10.0245	10.1386	10.1631	37
24	9.8370	9.8612	9.9757	10.0242	10.1387	10.1629	36
25	9.8371	9.8611	9.9759	10.0240	10.1388	10.1628	35
26	9.8372	9.8610	9.9762	10.0237	10.1389	10.1627	34
27	9.8374	9.8609	9.9764	10.0235	10.1390	10.1625	33
28	9.8375	9.8608	9.9767	10.0232	10.1391	10.1624	32
29	9.8376	9.8606	9.9769	10.0230	10.1393	10.1623	31
30	9.8378	9.8605	9.9772	10.0227	10.1394	10.1621	30
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

133° Degrees 46.

Co-sines, Co-tangents, & Co-secants.

43 Degrees. 136°.

Min.	Sine.	*Co-sine.*	Tangent.	*Co-tang.*	Secant.	10.*Co-sec.* o.*Co-ar.*	Min.
30	9.8378	9.8605	9.9772	10.0227	10.1394	10.1621	30
31	9.8379	9.8604	9.9775	10.0224	10.1395	10.1620	29
32	9.8380	9.8603	9.9777	10.0222	10.1396	10.1619	28
33	9.8382	9.8602	9.9780	10.0219	10.1397	10.1617	27
34	9.8383	9.8600	9.9782	10.0217	10.1399	10.1616	26
35	9.8384	9.8599	9.9785	10.0214	10.1400	10.1615	25
36	9.8386	9.8598	9.9787	10.0212	10.1401	10.1613	24
37	9.8387	9.8597	9.9790	10.0209	10.1402	10.1612	23
38	9.8388	9.8596	9.9792	10.0207	10.1403	10.1611	22
39	9.8390	9.8594	9.9795	10.0204	10.1405	10.1609	21
40	9.8391	9.8593	9.9797	10.0202	10.1406	10.1608	20
41	9.8392	9.8592	9.9800	10.0199	10.1407	10.1607	19
42	9.8394	9.8591	9.9802	10.0197	10.1408	10.1605	18
43	9.8395	9.8589	9.9805	10.0194	10.1410	10.1604	17
44	9.8396	9.8588	9.9807	10.0192	10.1411	10.1603	16
45	9.8398	9.8587	9.9810	10.0189	10.1412	10.1602	15
46	9.8399	9.8586	9.9812	10.0187	10.1413	10.1600	14
47	9.8400	9.8585	9.9815	10.0184	10.1414	10.1599	13
48	9.8401	9.8583	9.9818	10.0181	10.1416	10.1598	12
49	9.8403	9.8582	9.9820	10.0179	10.1417	10.1596	11
50	9.8404	9.8581	9.9823	10.0176	10.1418	10.1595	10
51	9.8405	9.8580	9.9825	10.0174	10.1419	10.1594	9
52	9.8407	9.8579	9.9828	10.0171	10.1420	10.1592	8
53	9.8408	9.8577	9.9830	10.0169	10.1422	10.1591	7
54	9.8409	9.8576	9.9833	10.0166	10.1423	10.1590	6
55	9.8411	9.8575	9.9835	10.0164	10.1424	10.1588	5
56	9.8412	9.8574	9.9838	10.0161	10.1425	10.1587	4
57	9.8413	9.8573	9.9840	10.0159	10.1427	10.1586	3
58	9.8415	9.8571	9.9843	10.0156	10.1428	10.1584	2
59	9.8416	9.8570	9.9845	10.0154	10.1429	10.1583	1
60	9.8417	9.8569	9.9848	10.0151	10.1430	10.1582	0
Min.	*Co-sine.*	Sine.	*Co-tang.*	Tangent.	10.*Co-sec.* o.*Co-ar.*	Secant.	Min.

133°. Degrees 46.

44 Degrees. 135°.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	10. Co-sec. 0. Co-ar.	Min.
0	9.8417	9.8569	9.9848	10.0151	10.1430	10.1582	60
1	9.8419	9.8568	9.9850	10.0149	10.1431	10.1580	59
2	9.8420	9.8566	9.9853	10.0146	10.1433	10.1579	58
3	9.8421	9.8565	9.9855	10.0144	10.1434	10.1578	57
4	9.8423	9.8564	9.9858	10.0141	10.1435	10.1577	56
5	9.8424	9.8563	9.9861	10.0138	10.1436	10.1573	55
6	9.8425	9.8562	9.9863	10.0136	10.1437	10.1574	54
7	9.8426	9.8560	9.9866	10.0133	10.1439	10.1573	53
8	9.8428	9.8559	9.9868	10.0131	10.1440	10.1571	52
9	9.8429	9.8558	9.9871	10.0128	10.1441	10.1570	51
10	9.8430	9.8557	9.9873	10.0126	10.1442	10.1569	50
11	9.8432	9.8555	9.9876	10.0123	10.1444	10.1567	49
12	9.8433	9.8554	9.9878	10.0121	10.1445	10.1566	48
13	9.8434	9.8553	9.9881	10.0118	10.1446	10.1565	47
14	9.8436	9.8552	9.9883	10.0116	10.1447	10.1563	46
15	9.8437	9.8550	9.9886	10.0113	10.1449	10.1562	45
16	9.8438	9.8549	9.9888	10.0111	10.1450	10.1561	44
17	9.8439	9.8548	9.9891	10.0108	10.1451	10.1560	43
18	9.8441	9.8547	9.9893	10.0106	10.1452	10.1558	42
19	9.8442	9.8546	9.9896	10.0103	10.1453	10.1557	41
20	9.8443	9.8544	9.9898	10.0101	10.1455	10.1556	40
21	9.8445	9.8543	9.9901	10.0098	10.1456	10.1554	39
22	9.8446	9.8542	9.9903	10.0096	10.1457	10.1553	38
23	9.8447	9.8541	9.9906	10.0093	10.1458	10.1552	37
24	9.8448	9.8539	9.9909	10.0090	10.1460	10.1551	36
25	9.8450	9.8538	9.9911	10.0088	10.1461	10.1549	35
26	9.8451	9.8537	9.9914	10.0085	10.1462	10.1548	34
27	9.8452	9.8536	9.9916	10.0083	10.1463	10.1547	33
28	9.8454	9.8534	9.9919	10.0080	10.1465	10.1545	32
29	9.8455	9.8533	9.9921	10.0078	10.1466	10.1544	31
30	9.8456	9.8532	9.9924	10.0075	10.1467	10.1543	30
M.	Co-sine.	Sine.	Co-tang.	Tangent.	10. Co-sec. 9. Co-ar.	Secant.	Min.

134°. Degrees 45.

44 Degrees. 135°.

Min.	Sine.	*Co-fine.*	Tangent.	*Co-tang.*	Secant.	10. *Co-fec.* 0. *Co-ar.*	Min.
30	9.8456	9.8532	9.9924	10.0075	10.1467	10.1543	30
31	9.8457	9.8531	9.9926	10.0073	10.1468	10.1542	29
32	9.8459	9.8529	9.9929	10.0070	10.1470	10.1540	28
33	9.8460	9.8528	9.9931	10.0068	10.1471	10.1539	27
34	9.8461	9.8527	9.9934	10.0065	10.1472	10.1538	26
35	9.8463	9.8526	9.9936	10.0063	10.1473	10.1536	25
36	9.8464	9.8524	9.9939	10.0060	10.1475	10.1535	24
37	9.8465	9.8523	9.9941	10.0058	10.1476	10.1534	23
38	9.8466	9.8522	9.9944	10.0055	10.1477	10.1533	22
39	9.8468	9.8521	9.9946	10.0053	10.1478	10.1531	21
40	9.8469	9.8519	9.9949	10.0050	10.1480	10.1530	20
41	9.8470	9.8518	9.9951	10.0048	10.1481	10.1529	19
42	9.8471	9.8517	9.9954	10.0045	10.1482	10.1528	18
43	9.8473	9.8516	9.9957	10.0042	10.1483	10.1526	17
44	9.8474	9.8514	9.9959	10.0040	10.1485	10.1525	16
45	9.8475	9.8513	9.9962	10.0037	10.1486	10.1524	15
46	9.8477	9.8512	9.9964	10.0035	10.1487	10.1522	14
47	9.8478	9.8511	9.9967	10.0032	10.1488	10.1521	13
48	9.8479	9.8509	9.9969	10.0030	10.1490	10.1520	12
49	9.8480	9.8508	9.9972	10.0027	10.1491	10.1519	11
50	9.8482	9.8507	9.9974	10.0025	10.1492	10.1517	10
51	9.8483	9.8506	9.9977	10.0022	10.1493	10.1516	9
52	9.8484	9.8504	9.9979	10.0020	10.1495	10.1515	8
53	9.8485	9.8503	9.9982	10.0017	10.1496	10.1514	7
54	9.8487	9.8502	9.9984	10.0015	10.1497	10.1512	6
55	9.8488	9.8501	9.9987	10.0012	10.1498	10.1511	5
56	9.8489	9.8499	9.9989	10.0010	10.1500	10.1510	4
57	9.8491	9.8498	9.9992	10.0007	10.1501	10.1508	3
58	9.8492	9.8497	9.9994	10.0005	10.1502	10.1507	2
59	9.8493	9.8496	9.9997	10.0002	10.1503	10.1506	1
60	9.8494	9.8494	10.000	10.0000	10.1505	10.1505	0
Min.	*Co-fine.*	Sine.	*Co-tang.*	Tangent.	10. *Co-fec.* 0. *Co-ar.*	Secant.	Min.

134°. Degrees 45.

FIRST QUARTER
OF THE
COMPASS CARD.

FROM NORTH TO EAST.

North.	0. Points.	0D	0M
	0. 1.8th	1	24
	0. 1.4th	2	49
	0. 3.8ths	4	13
	0. Half	5	37
	0. 5.8ths	7	2
	0. 3.4ths	8	26
	0. 7.8ths	9	51
N. by E.	1. Point.	11	15
	1. 1.8th	12	40
	1. 1.4th	14	4
	1. 3.8ths	15	28
	1. Half	16	52
	1. 5.8ths	18	17
	1. 3.4ths	19	41
	1. 7.8ths	21	6
N. N. E.	2. Points.	22	30
	2. 1.8th	23	55
	2. 1.4th	25	19
	2. 3.8ths	26	43
	2. Half	28	7
	2. 5.8ths	29	32
	2. 3.4ths	30	56
	2. 7.8ths	32	20
N.E.byN.	3. Points.	33	45
	3. 1.8th	35	10
	3. 1.4th	36	34
	3. 3.8ths	37	59
	3. Half	39	22
	3. 5.8ths	40	47
	3. 3.4ths	42	11
	3. 7.8ths	43	36
N. E.	4. Points.	45	0

N. E.	4. Points.	45D	0M
	4. 1.8th	46	25
	4. 1.4th	47	49
	4. 3.8ths	49	13
	4. Half	50	37
	4. 5.8ths	52	2
	4. 3.4ths	53	26
	4. 7.8ths	54	51
N.E.by E.	5. Points.	56	15
	5. 1.8th	57	40
	5. 1.4th	59	4
	5. 3.8ths	60	28
	5. Half	61	52
	5. 5.8ths	63	17
	5. 3.4ths	64	41
	5. 7.8ths	66	6
E. N. E.	6. Points.	67	30
	6. 1.8th	68	55
	6. 1.4th	70	19
	6. 3.8ths	71	43
	6. Half	73	7
	6. 5.8ths	74	30
	6. 3.4ths	75	56
	6. 7.8ths	77	21
E. by N.	7. Points.	78	45
	7. 1.8th	80	10
	7. 1.4th	81	34
	7. 3.8ths	82	58
	7. Half	84	22
	7. 5.8ths	85	47
	7. 3.4ths	87	11
	7. 7.8ths	88	36
East	8. Points.	90	0

SECOND QUARTER

OF THE

COMPASS CARD.

FROM SOUTH TO EAST.

South.	0. Points.	0D	0M
	0. 1.8th	1	24
	0. 1.4th	2	49
	0. 3.8ths	4	13
	0. Half	5	37
	0. 5.8ths	7	2
	0. 3.4ths	8	26
	0. 7.8ths	9	51
S. by E.	1. Point.	11	15
	1. 1.8th	12	40
	1. 1.4th	14	4
	1. 3.8ths	15	28
	1. Half	16	52
	1. 5.8ths	18	17
	1. 3.4ths	19	41
	1. 7.8ths	21	6
S. S. E.	2. Points.	22	30
	2. 1.8th	23	55
	2. 1.4th	25	19
	2. 3.8ths	26	43
	2. Half	28	7
	2. 5.8ths	29	32
	2. 3.4ths	30	56
	2. 7.8ths	32	20
S.E.byS.	3. Points.	33	45
	3. 1.8th	35	10
	3. 1.4th	36	34
	3. 3.8ths	37	59
	3. Half	39	22
	3. 5.8ths	40	47
	3. 3.4ths	42	11
	3. 7.8ths	43	36
S. E.	4. Points.	45	0

S. E.	4. Points.	45D	0M
	4. 1.8th	46	25
	4. 1.4th	47	49
	4. 3.8ths	49	13
	4. Half	50	37
	4. 5.8ths	52	2
	4. 3.4ths	53	26
	4. 7.8ths	54	51
S.E.byE.	5. Points.	56	15
	5. 1.8th	57	40
	5. 1.4th	59	4
	5. 3.8ths	60	28
	5. Half	61	52
	5. 5.8ths	63	17
	5. 3.4ths	64	41
	5. 7.8ths	66	6
E. S. E.	6. Points.	67	30
	6. 1.8th	68	55
	6. 1.4th	70	19
	6. 3.8ths	71	43
	6. Half	73	7
	6. 5.8ths	74	30
	6. 3.4ths	75	56
	6. 7.8ths	77	21
E. by S.	7. Points.	78	45
	7. 1.8th	80	10
	7. 1.4th	81	34
	7. 3.8ths	82	58
	7. Half	84	22
	7. 5.8ths	85	47
	7. 3.4ths	87	11
	7. 7.8ths	88	36
East	8. Points.	90	•

THIRD QUARTER
OF THE
COMPASS CARD.

FROM NORTH TO WEST.

North.	0. Points.	0D	0M
	0. 1.8th	1	24
	0. 1.4th	2	49
	0. 3.8ths	4	13
	0. Half	5	37
	0. 5.8ths	7	2
	0. 3.4ths	8	26
	0. 7.8ths	9	51
N. by W.	1. Point.	11	15
	1. 1.8th	12	40
	1. 1.4th	14	4
	1. 3.8ths	15	28
	1. Half	16	52
	1. 5.8ths	18	17
	1. 3.4ths	19	41
	1. 7.8ths	21	6
N.N.W.	2. Points.	22	30
	2. 1.8th	23	55
	2. 1.4th	25	19
	2. 3.8ths	26	43
	2. Half	28	7
	2. 5.8ths	29	32
	2. 3.4ths	30	56
	2. 7.8ths	32	20
N.W.byN.	3. Points.	33	45
	3. 1.8th	35	10
	3. 1.4th	36	34
	3. 3.8ths	37	59
	3. Half	39	22
	3. 5.8ths	40	47
	3. 3.4ths	42	11
	3. 7.8ths	43	36
N. W.	4. Points	45	0

N.W.	4. Points.	45D	0M
	4. 1.8th	46	25
	4. 1.4th	47	49
	4. 3.8ths	49	13
	4. Half	50	37
	4. 5.8ths	52	2
	4. 3.4ths	53	26
	4. 7.8ths	54	51
N.W.byW.	5. Points.	56	15
	5. 1.8th	57	40
	5. 1.4th	59	4
	5. 3.8ths	60	28
	5. Half	61	52
	5. 5.8ths	63	17
	5. 3.4ths	64	41
	5. 7.8ths	66	6
W.N.W.	6. Points.	67	30
	6. 1.8th	68	55
	6. 1.4th	70	19
	6. 3.8ths	71	43
	6. Half	73	7
	6. 5.8ths	74	30
	6. 3.4ths	75	56
	6. 7.8ths	77	21
W. byN.	7. Points.	78	45
	7. 1.8th	80	10
	7. 1.4th	81	34
	7. 3.8ths	82	58
	7. Half	84	22
	7. 5.8ths	85	47
	7. 3.4ths	87	11
	7. 7.8ths	88	36
West	8. Points.	90	0

FOURTH QUARTER
OF THE
COMPASS CARD.

FROM SOUTH TO WEST.

South.	0. Points.	0D	0M
	0. 1.8th	1	24
	0. 1.4th	2	49
	0. 3.8ths	4	13
	0. Half	5	37
	0. 5.8ths	7	2
	0. 3.4ths	8	26
	0. 7.8ths	9	51
S. by W.	1. Point.	11	15
	1. 1.8th	12	40
	1. 1.4th	14	4
	1. 3.8ths	15	28
	1. Half	16	52
	1. 5.8ths	18	17
	1. 3.4ths	19	41
	1. 7.8ths	21	6
S. S. W.	2. Points.	22	30
	2. 1.8th	23	55
	2. 1.4th	25	19
	2. 3.8ths	26	43
	2. Half	28	7
	2. 5.8ths	29	32
	2. 3.4ths	30	56
	2. 7.8ths	32	20
S.W.byS.	3. Points.	33	45
	3. 1.8th	35	10
	3. 1.4th	36	34
	3. 3.8ths	37	59
	3. Half	39	22
	3. 5.8ths	40	47
	3. 3.4ths	42	11
	3. 7.8ths	43	36
S. W.	4. Points.	45	0
S. W.	4. Points.	45D	0M
	4. 1.8th	46	25
	4. 1.4th	47	49
	4. 3.8ths	49	13
	4. Half	50	37
	4. 5.8ths	52	2
	4. 3.4ths	53	26
	4. 7.8ths	54	51
S.W.byW.	5. Points.	56	15
	5. 1.8th	57	40
	5. 1.4th	59	4
	5. 3.8ths	60	28
	5. Half	61	52
	5. 5.8ths	63	17
	5. 3.4ths	64	41
	5. 7.8ths	66	6
W.S.W.	6. Points.	67	30
	6. 1.8th	68	55
	6. 1.4th	70	19
	6. 3.8ths	71	43
	6. Half	73	7
	6. 5.8ths	74	30
	6. 3.4ths	75	56
	6. 7.8ths	77	21
W. by S.	7. Points.	78	45
	7. 1.8th	80	10
	7. 1.4th	81	34
	7. 3.8ths	82	58
	7. Half	84	22
	7. 5.8ths	85	47
	7. 3.4ths	87	11
	7. 7.8ths	88	36
West.	8. Points.	90	0

A TABLE OF TIME AND DEGREES;

Minutes of Time to each four Minutes.

Time.	0 M.	4 M.	8 M.	12 M.	16 M.	20 M.	24 M.
Degrees to each Degree during a Day.							
Hours.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
0.	0.	1.	2.	3.	4.	5.	6.
1.	15.	16.	17.	18.	19.	20.	21.
2.	30.	31.	32.	33.	34.	35.	36.
3.	45.	46.	47.	48.	49.	50.	51.
4.	60.	61.	62.	63.	64.	65.	66.
5.	75.	76.	77.	78.	79.	80.	81.
6.	90.	91.	92.	93.	94.	95.	96.
7.	105.	106.	107.	108.	109.	110.	111.
8.	120.	121.	122.	123.	124.	125.	126.
9.	135.	136.	137.	138.	139.	140.	141.
10.	150.	151.	152.	153.	154.	155.	156.
11.	165.	166.	167.	168.	169.	170.	171.
12.	180.	181.	182.	183.	184.	185.	186.
13.	195.	196.	197.	198.	199.	200.	201.
14.	210.	211.	212.	213.	214.	215.	216.
15.	225.	226.	227.	228.	229.	230.	231.
16.	240.	241.	242.	243.	244.	245.	246.
17.	255.	256.	257.	258.	259.	260.	261.
18.	270.	271.	272.	273.	274.	275.	276.
19.	285.	286.	287.	288.	289.	290.	291.
20.	300	301.	302.	303.	304.	305.	306.
21.	315.	316.	317.	318.	319.	320.	321.
22.	330.	331.	332.	333.	334.	335.	336.
23.	345.	346.	347.	348.	349.	350.	351.

CONSTRUCTED BY S. DUNN.

Minutes of Time to each four Minutes.

Time.	28 M.	32 M.	36 M.	40 M.	44 M.	48 M.	52 M.	56 M.

Degrees to each Degree during a Day.

Hours.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
0	7.	8.	9.	10.	11.	12.	13.	14.
1	22.	23.	24.	25.	26.	27.	28.	29.
2	37.	38.	39.	40.	41.	42.	43.	44.
3	52.	53.	54.	55.	56.	57.	58.	59.
4	67.	68.	69.	70.	71.	72.	73.	74.
5	82.	83.	84.	85.	86.	87.	88.	89.
6	97.	98.	99.	100.	101.	102.	103.	104.
7	112.	113.	114.	115.	116.	117.	118.	119.
8	127.	128.	129.	130.	131.	132.	133.	134.
9	142.	143.	144.	145.	146.	147.	148.	149.
10	157.	158.	159.	160.	161.	162.	163.	164.
11	172.	173.	174.	175.	176.	177.	178.	179.
12	187.	188.	189.	190.	191.	192.	193.	194.
13	202.	203.	204.	205.	206.	207.	208.	209.
14	217.	218.	219.	220.	221.	222.	223.	224.
15	232.	233.	234.	235.	236.	237.	238.	239.
16	247.	248.	249.	250.	251.	252.	253.	254.
17	262.	263.	264.	265.	266.	267.	268.	269.
18	277.	278.	279.	280.	281.	282.	283.	284.
19	292.	293.	294.	295.	296.	297.	298.	299.
20	307.	308.	309.	310.	311.	312.	313.	314.
21	322.	323.	324.	325.	326.	327.	328.	329.
22	337.	338.	339.	340.	341.	342.	343.	344.
23	352.	353.	354.	355.	356.	357.	358.	359.

CONCLUSION.

THESE Logarithms are of the ſame Form, as thoſe by me of a larger ſize in Octavo, but theſe have only two thirds as many Figures in the decimal parts. When two of theſe Logarithms are to be added, Unity or one is to be carried to the beginning of the Addition. When four, two.

In theſe Tables, near the beginning of the Quadrant, the Co-ſines change ſlowly, therefore an Anſwer depending on that part, is beſt found by the Sines, to great accuracy.

The Longitude at Sea, all parts of Navigation, Aſtronomy, and other Mathematical Sciences, are ſubjects to which theſe Logarithms become immediately applicable. The ſuperior excellency of Logarithms in the Sciences, conſiſts often in taking but a ſingle Step to the truth itſelf, which is but little more than Inſpection. By other Methods, with the greateſt difficulties it is hardly to be obtained.

If a natural Number is too great for the Table, for example, if it be three thouſand Miles, it may be called one thouſand Leagues; or if it be ten thouſand Miles, it may be called one thouſand meaſures of ten Miles each, and then it will work for the anſwer, in its reſpective Meaſure.

Every Figure in theſe Tables, has been examined by me before printing off. The Logarithmic Figures may be compared with any good Table of five, ſix, or ſeven Places. An Operation may be made by theſe Tables, and afterward, on a particular occaſion where Preciſion is neceſſary, one, two, or three Figures may be added, from any good Table, with but a little Alteration in the former Proceſs.

London, Nov. 20, 1793. S. DUNN.